

**REDACTED**

LBO00078

United States Environmental Protection Agency  
Region 4



**35<sup>TH</sup> AVENUE REMOVAL INVESTIGATION  
BIRMINGHAM, ALABAMA  
JEFF CROWLEY, ON-SCENE COORDINATOR**

**FIELD SAMPLING LOGBOOK**

Book 1 of 1

Inclusive Dates: 05/24/13 - 05/24/13

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)	RS EM	OTIE, Team Leader OTIE

## Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than ( $\leq$ ) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ( $>$ ) 5,000 square feet and  $\leq \frac{1}{4}$ -acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over  $\frac{1}{4}$ -acre in parcel lot size will be divided into  $\frac{1}{4}$ -acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34<sup>th</sup> Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

(b) (6)

ADDRESS:

DATE: 5/20/13

PROPERTY ID: HP0068

ARRIVAL TIME: 1255

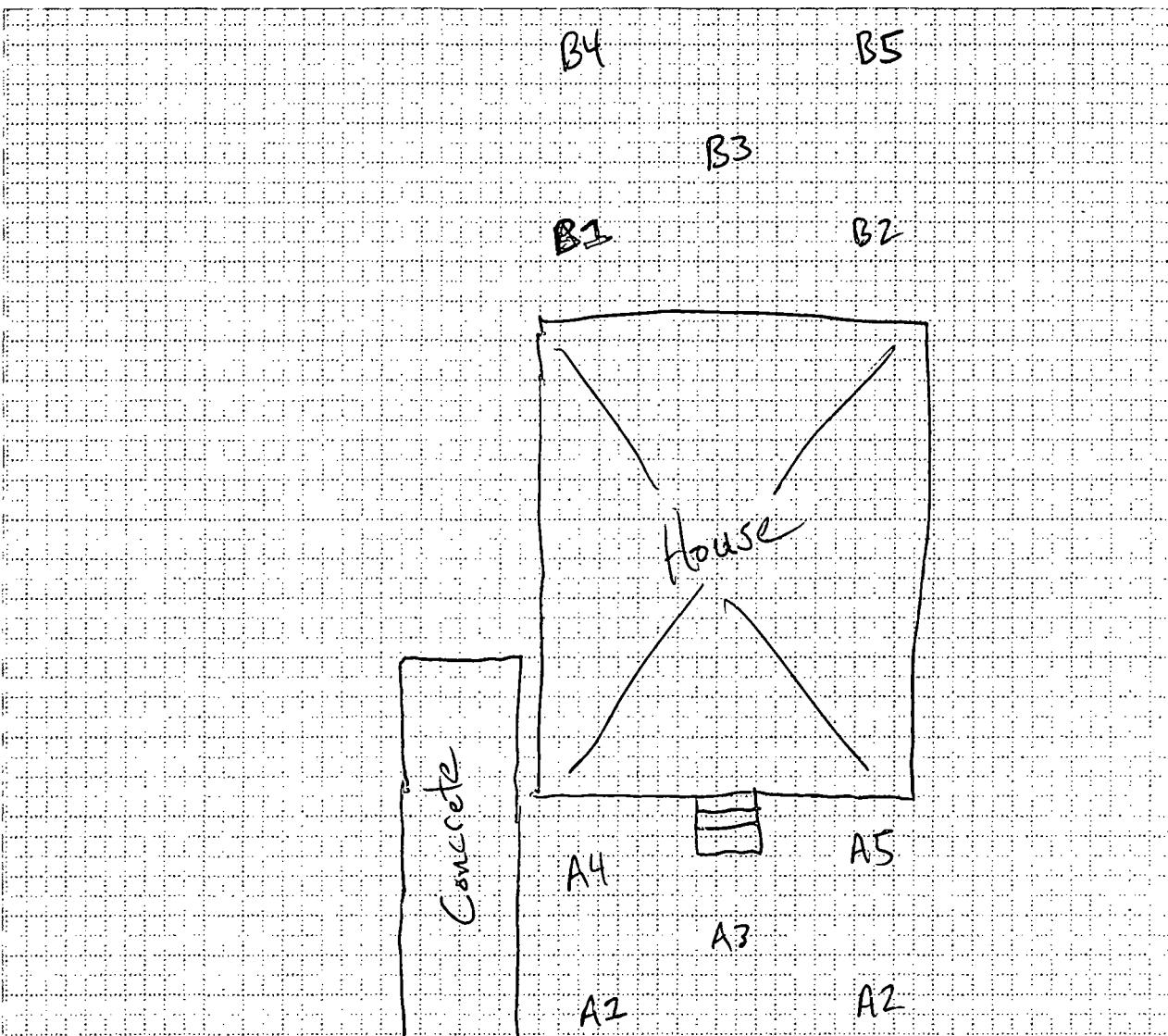
Other pertinent information (weather conditions, etc.):

~80°F + cloudy

PROPERTY COMMENTS:

House appears vacant + yard is overgrown.

Grid for property sketch



(b) (6)

STATION ID: HP0068A SAMPLE ID: HP0068A-CS  
SAMPLE COLLECTION TIME: 1305

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

FRONT YARD

Collection:	Composite	or	Grab	RS	MS/MSD?	Y or N
Field Duplicate or Split:	Yes	or	No	If yes, indicate Duplicate/split sample station ID:	HP0068A	
GPS Coordinates: Trimble	[ ]	Instrument #:	020168	Logged?	O	N
Aliquot #1: Latitude:	33.56397153	N Longitude	86.79102994	W		
Media description:	BROWN SILTY CLAY w/ COAL					
Aliquot #2: Latitude:	33.56398061	N Longitude	86.79097620	W		
Media description:	DARK BROWN SILTY CLAY w/ COAL					
Aliquot #3: Latitude:	33.56398933	N Longitude	86.79100926	W		
Media description:	SAME AS #1					
Aliquot #4: Latitude:	33.56400572	N Longitude	86.79104184	W		
Media description:	SAME AS #1					
Aliquot #5: Latitude:	33.56400562	N Longitude	86.79098881	W		
Media description:	SAME AS #1					

STATION ID: HP0068B SAMPLE ID: HP0068B-CS

SAMPLE COLLECTION TIME: 1315

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yards

Collection:	Composite	or	Grab	MS/MSD?	Y or N	
Field Duplicate or Split:	Yes	or	No	If yes, indicate Duplicate/split sample station ID:		
GPS Coordinates: Trimble	[ ]	Instrument #:	020168	Logged?	O	N
Aliquot #1: Latitude:	33.56421139	N Longitude	86.79104706	W		
Media description:	DK silty clay					
Aliquot #2: Latitude:	33.56421397	N Longitude	86.79098694	W		
Media description:	Same as #1					
Aliquot #3: Latitude:	33.56423978	N Longitude	86.79102029	W		
Media description:	Same as BI					
Aliquot #4: Latitude:	33.56428260	N Longitude	86.79104490	W		
Media description:	Same as BI					
Aliquot #5: Latitude:	33.56428832	N Longitude	86.79098565	W		
Media description:	Same as BI					

(b) (6)

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV0626

DATE: 5/20/13 ARRIVAL TIME: 1430

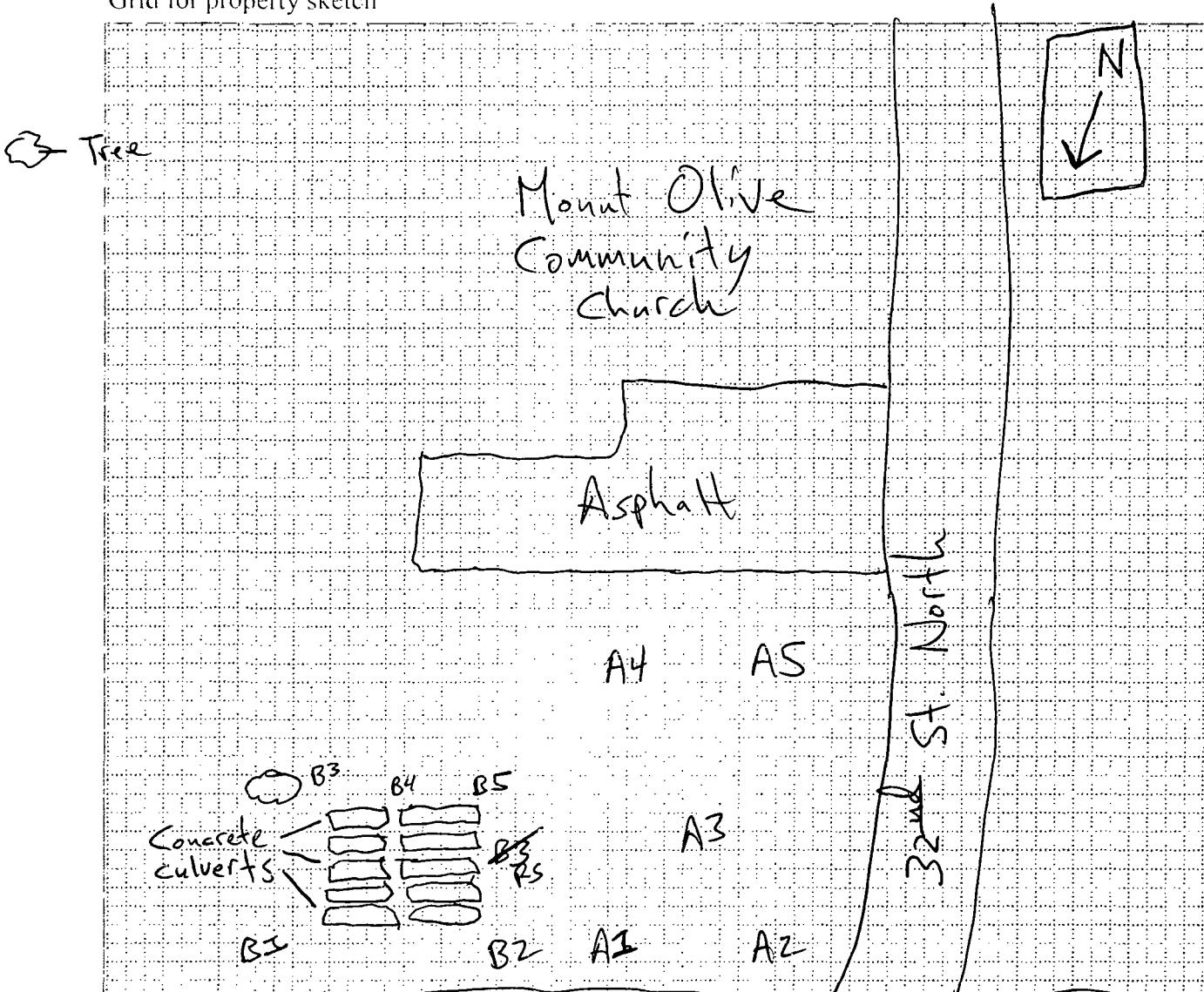
Other pertinent information (weather conditions, etc.):

~85°F + cloudy

PROPERTY COMMENTS:

Vacant lot adjacent to church. This parcel has been used as a staging area for the water department.

Grid for property sketch



STATION ID: CV0626A

SAMPLE ID: CV0626A-CS

SAMPLE COLLECTION TIME: 1435

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

West half of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble X Instrument #: 020168 Logged? Y or N  
Aliquot #1: Latitude: 33.55741945 N Longitude 86.80293502 W  
Media description: Dk brn silty clay  
Aliquot #2: Latitude: 33.55740771 N Longitude 86.80296350 W  
Media description: Same as A1  
Aliquot #3: Latitude: 33.55736698 N Longitude 86.80290793 W  
Media description: Same as A1  
Aliquot #4: Latitude: 33.55734188 N Longitude 86.80285086 W  
Media description: Same as A1  
Aliquot #5: Latitude: 33.55731148 N Longitude 86.80290403 W  
Media description: Same as A1

STATION ID: CV0626B

SAMPLE ID: CV0626B-CS

SAMPLE COLLECTION TIME: 1445

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

East half of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:  
GPS Coordinates: Trimble X Instrument #: 020168 Logged? Y or N  
Aliquot #1: Latitude: 33.55752977 N Longitude 86.80280590 W  
Media description: Dk brn silty clay  
Aliquot #2: Latitude: 33.55747715 N Longitude 86.80284023 W  
Media description: Same as B1  
Aliquot #3: Latitude: 33.55749600 N Longitude 86.80271991 W  
Media description: Same as B1  
Aliquot #4: Latitude: 33.55745676 N Longitude 86.80277632 W  
Media description: Same as B1  
Aliquot #5: Latitude: 33.55743499 N Longitude 86.80280740 W  
Media description: Same as B1

**(b) (6)**

ADDRESS: No address for lot

PROPERTY ID: CV0003

DATE: 5/20/13 ARRIVAL TIME: 1505

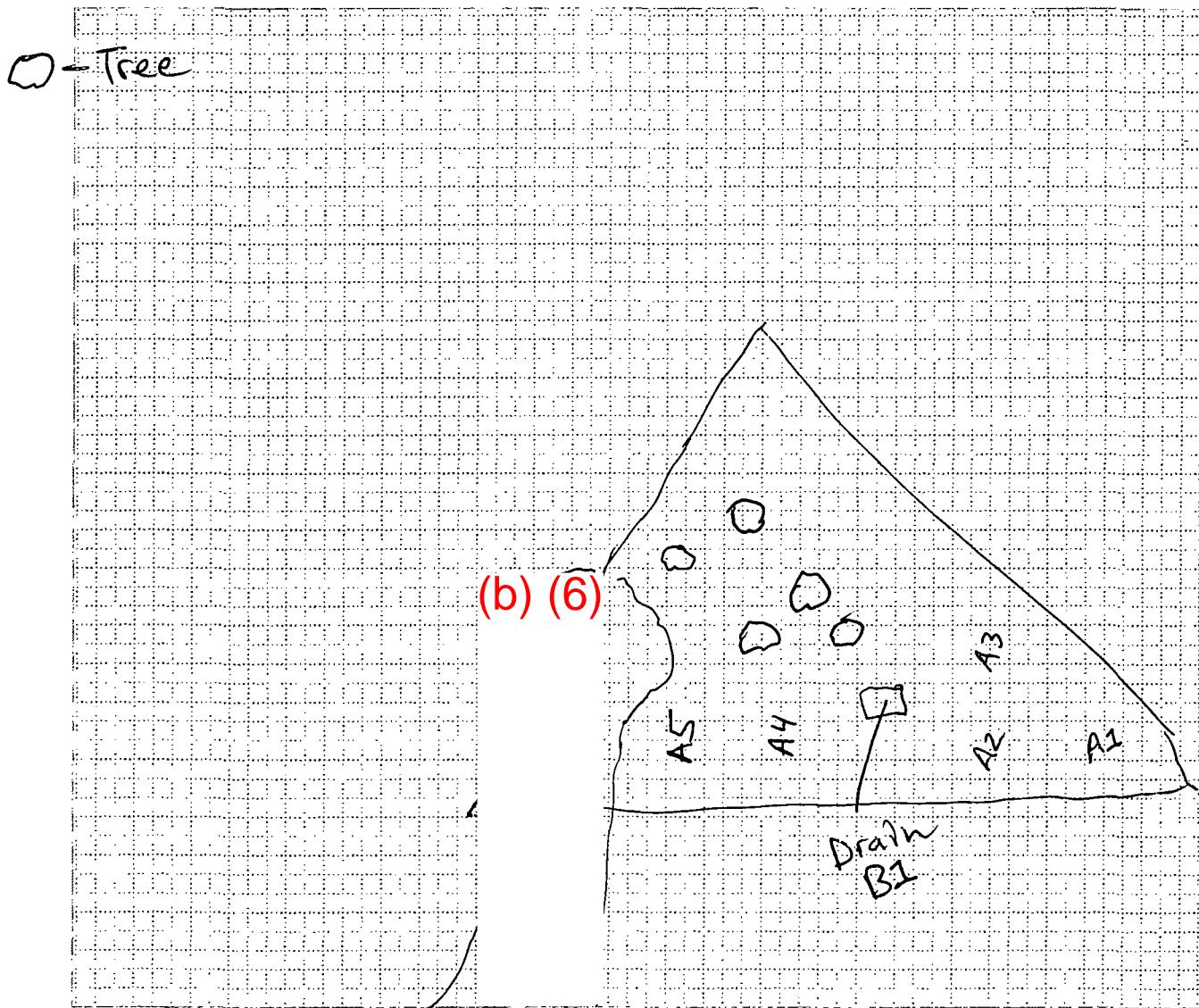
Other pertinent information (weather conditions, etc.):

~86°F + cloudy

PROPERTY COMMENTS:

Empty parcel off the culdesac. Triangle shaped lot. Less than 5,000 square feet so only collected 1 sample.

Grid for property sketch



STATION ID: CV0003A

SAMPLE ID: CV0003A-CS

SAMPLE COLLECTION TIME: 1515

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble X Instrument #: 020168 Logged? Y or N  
Aliquot #1: Latitude: 33.55869523 N Longitude 86.79911874 W  
Media description: Dk brn silty  
Aliquot #2: Latitude: 33.558715955 N Longitude 86.79904994 W  
Media description: Orange sandy silty clay  
Aliquot #3: Latitude: 33.55872408 N Longitude 86.79898818 W  
Media description: Brn silty clay  
Aliquot #4: Latitude: 33.55877030 N Longitude 86.79897297 W  
Media description: Same as A1  
Aliquot #5: Latitude: 33.55877516 N Longitude 86.79892397 W  
Media description: Same as A1

STATION ID: CV0003B

SAMPLE ID: CV0003B-CS

SAMPLE COLLECTION TIME: 1525

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Drain

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble X Instrument #: 020168 Logged? Y or N  
Aliquot #1: Latitude: 33.55871916 N Longitude 86.79907469 W  
Media description: Dk brn silty clay  
Aliquot #2: Latitude: N Longitude W  
Media description:  
Aliquot #3: Latitude: N Longitude W  
Media description:  
Aliquot #4: Latitude: N Longitude W  
Media description:  
Aliquot #5: Latitude: N Longitude W  
Media description:

**(b) (6)**

ADDRESS: No address for lot

PROPERTY ID: CV0747

DATE: 5/21/13

ARRIVAL TIME: 0845

Other pertinent information (weather conditions, etc.):

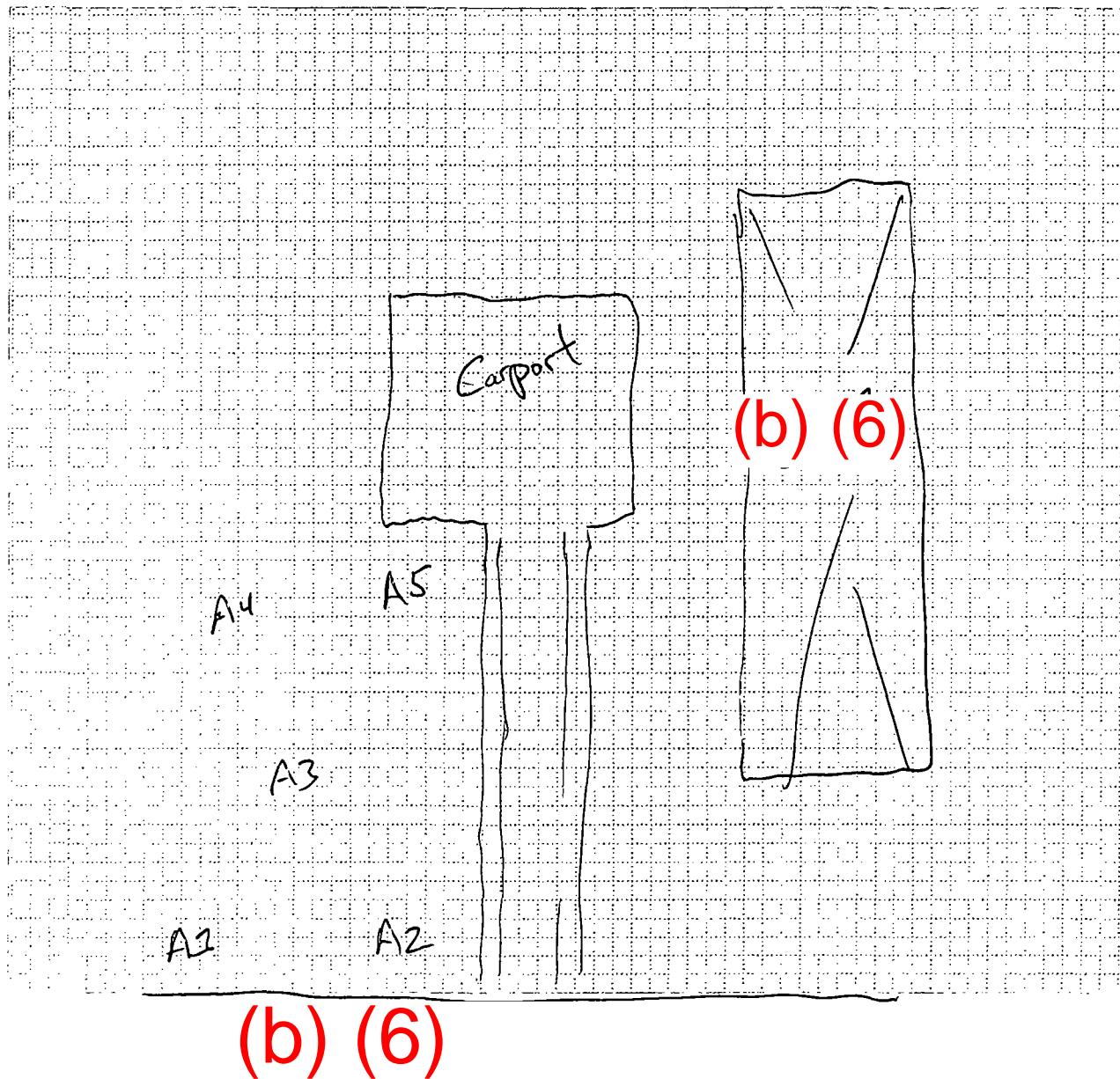
~80°F & clear

PROPERTY COMMENTS:

Empty lot, dirt driveway to carport on lot.

Lot < 3000 square feet so only collected 1  
5-point composite sample.

Grid for property sketch



STATION ID: CV0747A

SAMPLE ID: CV0747A-CS

SAMPLE COLLECTION TIME: 6855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0747A

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>020168</u>	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1:	Latitude:	<u>33.55819953</u>	N Longitude	<u>86.79487352</u>	W
	Media description:	<u>dk brn silty clay with gravel</u>			
Aliquot #2:	Latitude:	<u>33.55820226</u>	N Longitude	<u>86.79490117</u>	W
	Media description:	<u>Same as A1</u>			
Aliquot #3:	Latitude:	<u>33.55816278</u>	N Longitude	<u>86.79488844</u>	W
	Media description:	<u>Same as A1</u>			
Aliquot #4:	Latitude:	<u>33.55807576</u>	N Longitude	<u>86.79489377</u>	W
	Media description:	<u>Same as A1</u>			
Aliquot #5:	Latitude:	<u>33.55810402</u>	N Longitude	<u>86.79491827</u>	W
	Media description:	<u>Same as A1</u>			

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____					
GPS Coordinates:	Trimble [ ]	Instrument #:	_____	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #2:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #3:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #4:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #5:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			

(b) (6)

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV-1358

DATE: 5/21/13 ARRIVAL TIME: 0920

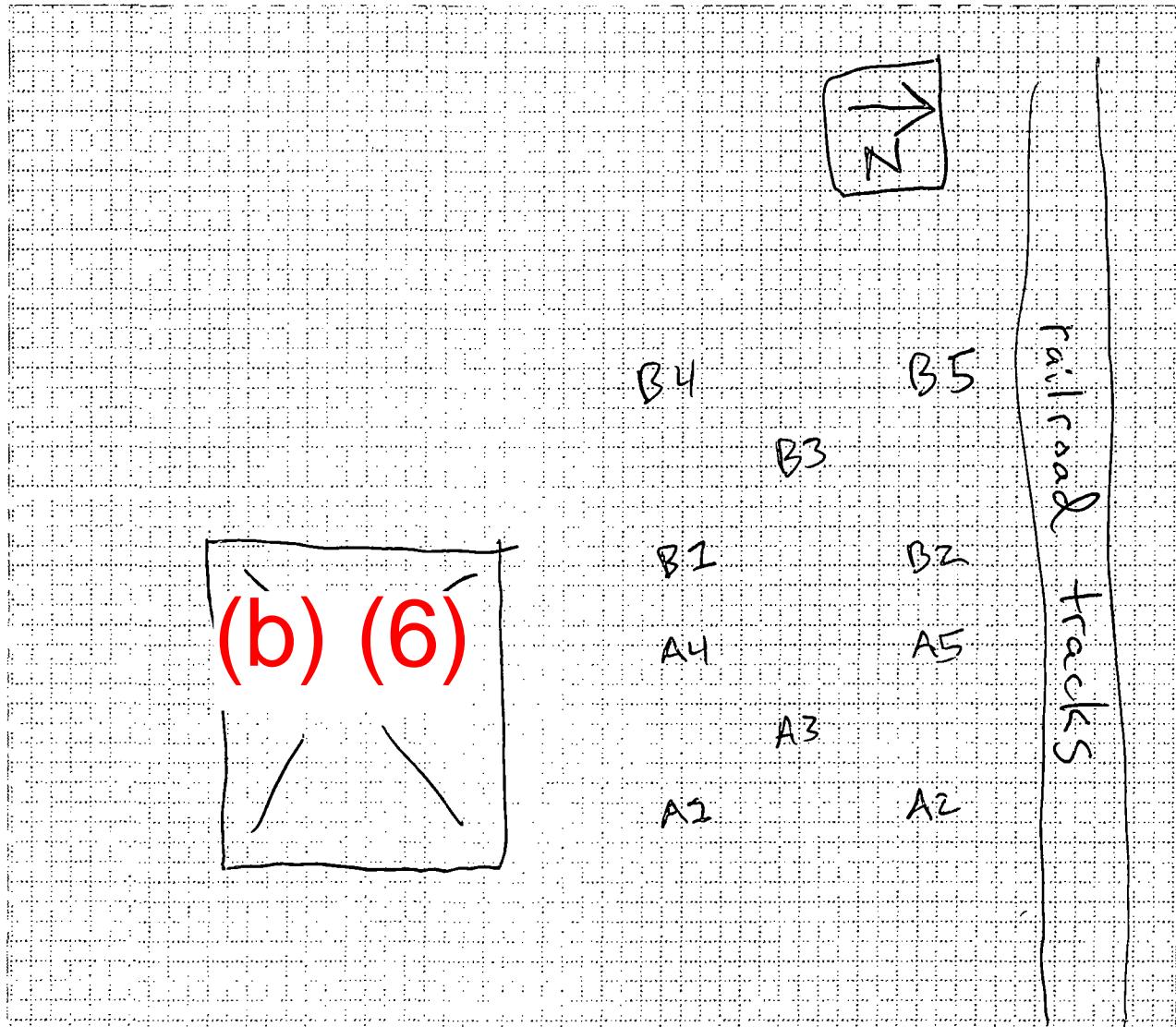
Other pertinent information (weather conditions, etc.):

82°F & clear

PROPERTY COMMENTS:

Empty lot north of house (b) (6)  
~~Has P5~~ Entire lot covered with grass. Railroad  
adjacent to north of lot.

Grid for property sketch



STATION ID: CV1358A

SAMPLE ID: CV1358A-CS

SAMPLE COLLECTION TIME: 0930

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV1358A

GPS Coordinates:	Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1:	Latitude:	33.55246593	N Longitude	86.79849423	W
	Media description:	DK brn silty clay			
Aliquot #2:	Latitude:	33.55259175	N Longitude	86.79847850	W
	Media description:	Same as A1			
Aliquot #3:	Latitude:	33.55251261	N Longitude	86.79851256	W
	Media description:	Same as A1			
Aliquot #4:	Latitude:	33.55246443	N Longitude	86.79853669	W
	Media description:	Same as A1			
Aliquot #5:	Latitude:	33.55258941	N Longitude	86.79854167	W
	Media description:	Same as A1			

STATION ID: CV1358B

SAMPLE ID: CV1358B-CS

SAMPLE COLLECTION TIME: 0940

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates:	Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1:	Latitude:	33.55245893	N Longitude	86.79858787	W
	Media description:	DK brn silty clay			
Aliquot #2:	Latitude:	33.55259174	N Longitude	86.79857405	W
	Media description:	Same as B1			
Aliquot #3:	Latitude:	33.55252782	N Longitude	86.79863305	W
	Media description:	Same as B1			
Aliquot #4:	Latitude:	33.55248073	N Longitude	86.79867031	W
	Media description:	Same as B1			
Aliquot #5:	Latitude:	33.55260163	N Longitude	86.79866580	W
	Media description:	Same as B1			

**(b) (6)**

ADDRESS:

PROPERTY ID: CV1351

DATE: 5/21/13

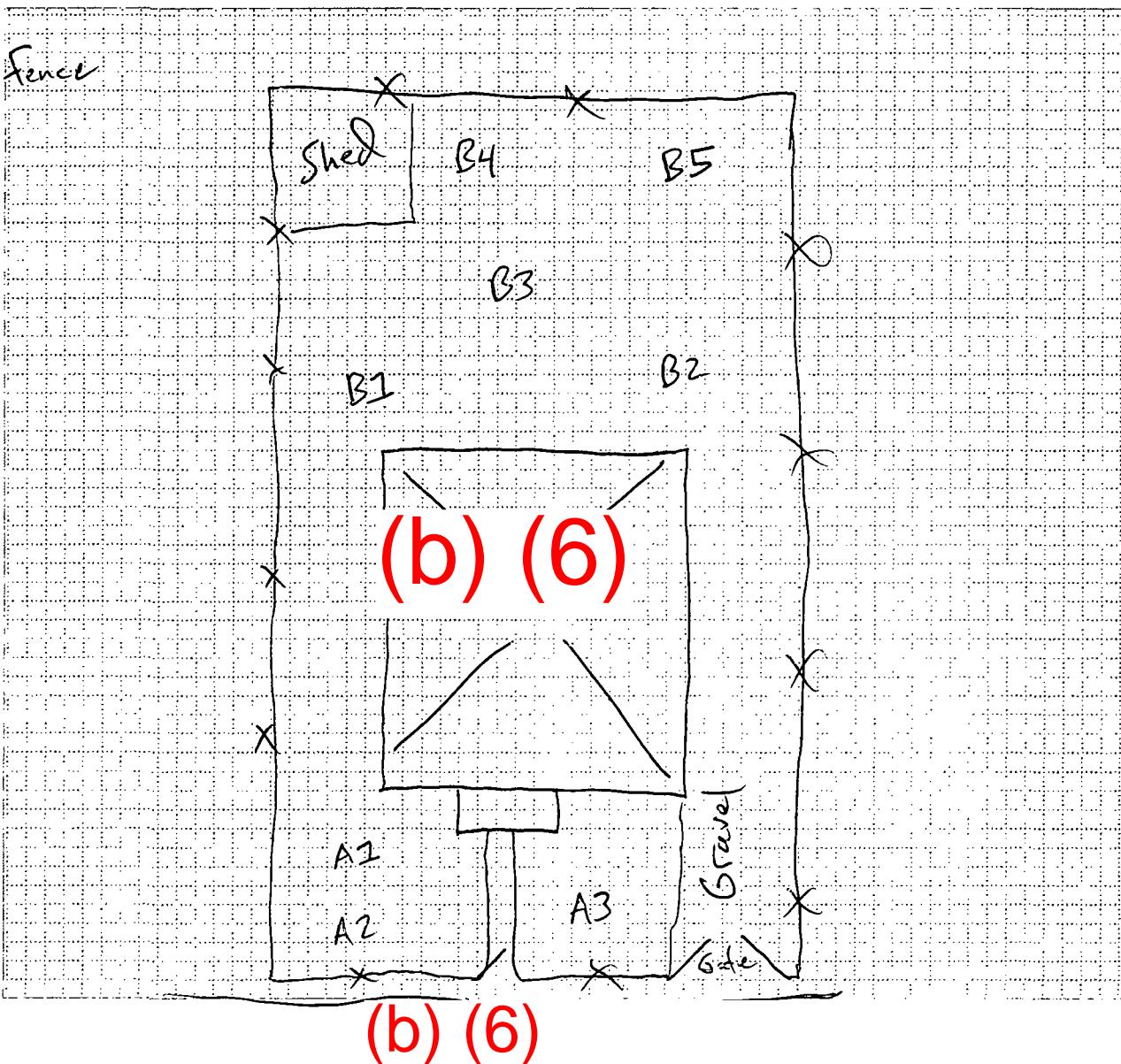
ARRIVAL TIME: 1035

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Small lot with house and a shed in back yard. Small front yard so only did a 3-point composite.

Grid for property sketch



STATION ID: CV1351B SAMPLE ID: CV1351B-CS  
SAMPLE COLLECTION TIME: 1040

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	[X]	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.55165812	N Longitude	86.79864849	W	
Media description:	dk brn silty clay				
Aliquot #2: Latitude:	33.55170557	N Longitude	86.79868419	W	
Media description:	Same as A1				
Aliquot #3: Latitude:	33.55166759	N Longitude	86.79868989	W	
Media description:	Same as A1				
Aliquot #4: Latitude:	Brn clay 33.55168171	N Longitude	86.79872354	W	
Media description:	Brn clay with coal				
Aliquot #5: Latitude:	33.55171262	N Longitude	86.79871369	W	
Media description:	Brn clay with coal				

STATION ID: CV1351A SAMPLE ID: CV1351A-CS

SAMPLE COLLECTION TIME: 1050

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard 3 point

Collection: Composite or Grab MS/MSD?  or N

GPS Coordinates: Trimble	[X]	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.55163656	N Longitude	86.79847827	W	
Media description:	dk brn silty clay				
Aliquot #2: Latitude:	33.55163507	N Longitude	86.79845175	W	
Media description:	Same as B1				
Aliquot #3: Latitude:	33.55170112	N Longitude	86.79845606	W	
Media description:	Same as B1				
Aliquot #4: Latitude:		N Longitude		W	
Media description:					
Aliquot #5: Latitude:		N Longitude		W	
Media description:					

(b) (6)

ADDRESS: \_\_\_\_\_ PROPERTY ID: FM0217

DATE: 5/21/13 ARRIVAL TIME: 1455

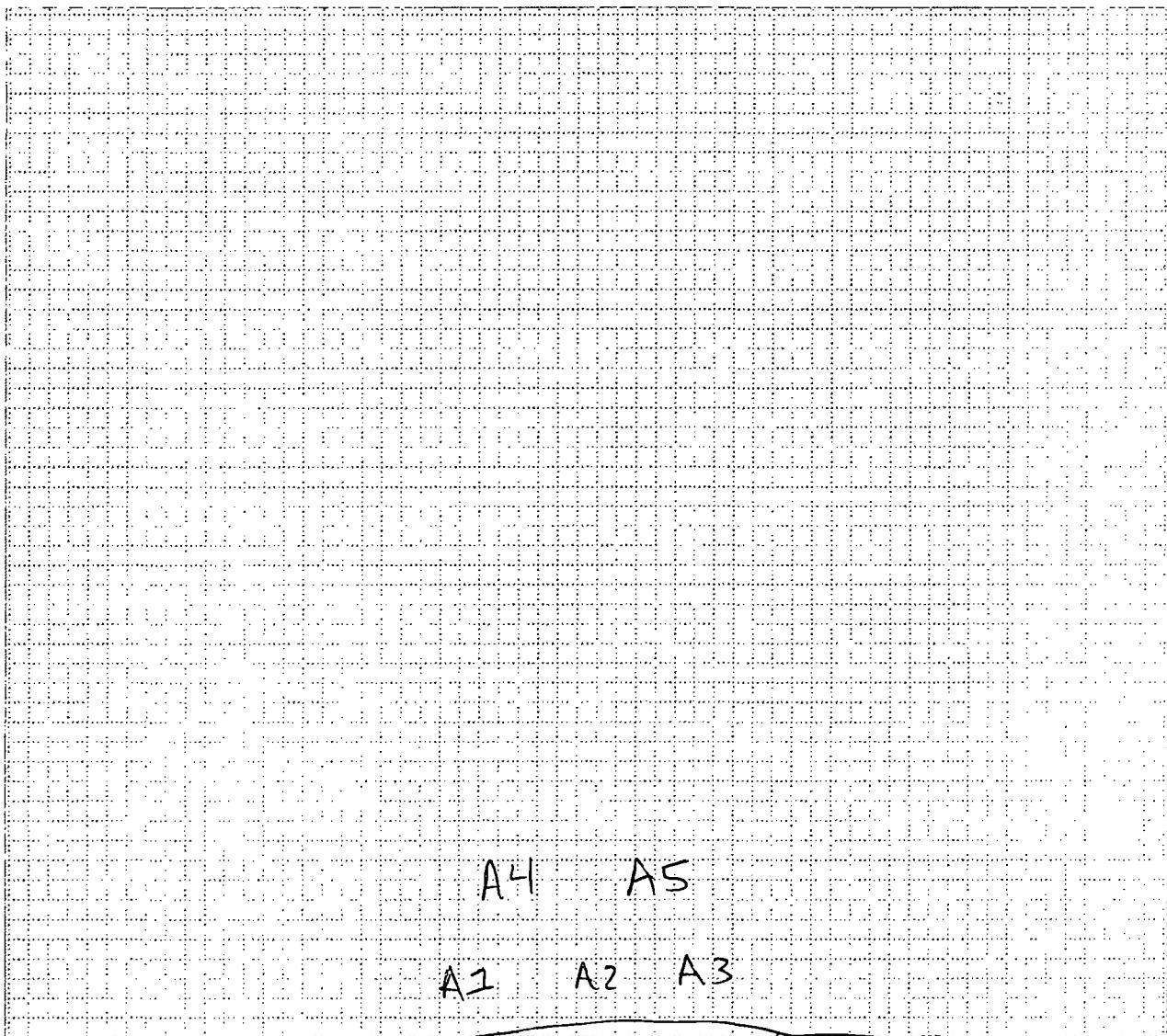
Other pertinent information (weather conditions, etc.):

~90°F + partly cloudy

PROPERTY COMMENTS:

Empty lot with dense brush.

Grid for property sketch



(b) (6)

STATION ID: FM0217A

SAMPLE ID: FM0217A-CS

SAMPLE COLLECTION TIME: 1500

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

North end of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>020168</u>	Logged?	<u>Y</u> or N
Aliquot #1:	Latitude:	<u>33.57115962</u>	N Longitude	<u>86.80588283</u>	W
	Media description:	<u>Dk brn silty clay</u>			
Aliquot #2:	Latitude:	<u>33.57117450</u>	N Longitude	<u>86.80597055</u>	W
	Media description:	<u>Same as A1</u>			
Aliquot #3:	Latitude:	<u>33.57116356</u>	N Longitude	<u>86.80596478</u>	W
	Media description:	<u>Same as A1</u>			
Aliquot #4:	Latitude:	<u>33.57112095</u>	N Longitude	<u>86.80590128</u>	W
	Media description:	<u>Same as A1</u>			
Aliquot #5:	Latitude:	<u>33.57112916</u>	N Longitude	<u>86.80591837</u>	W
	Media description:	<u>Same as A1</u>			

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates:	Trimble <input type="checkbox"/>	Instrument #:	_____	Logged?	Y or N
Aliquot #1:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #2:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #3:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #4:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			
Aliquot #5:	Latitude:	_____	N Longitude	_____	W
	Media description:	_____			

(b) (6)

ADDRESS:

PROPERTY ID: CV1034

DATE: 5/22/13

ARRIVAL TIME: 0817

Other pertinent information (weather conditions, etc.):

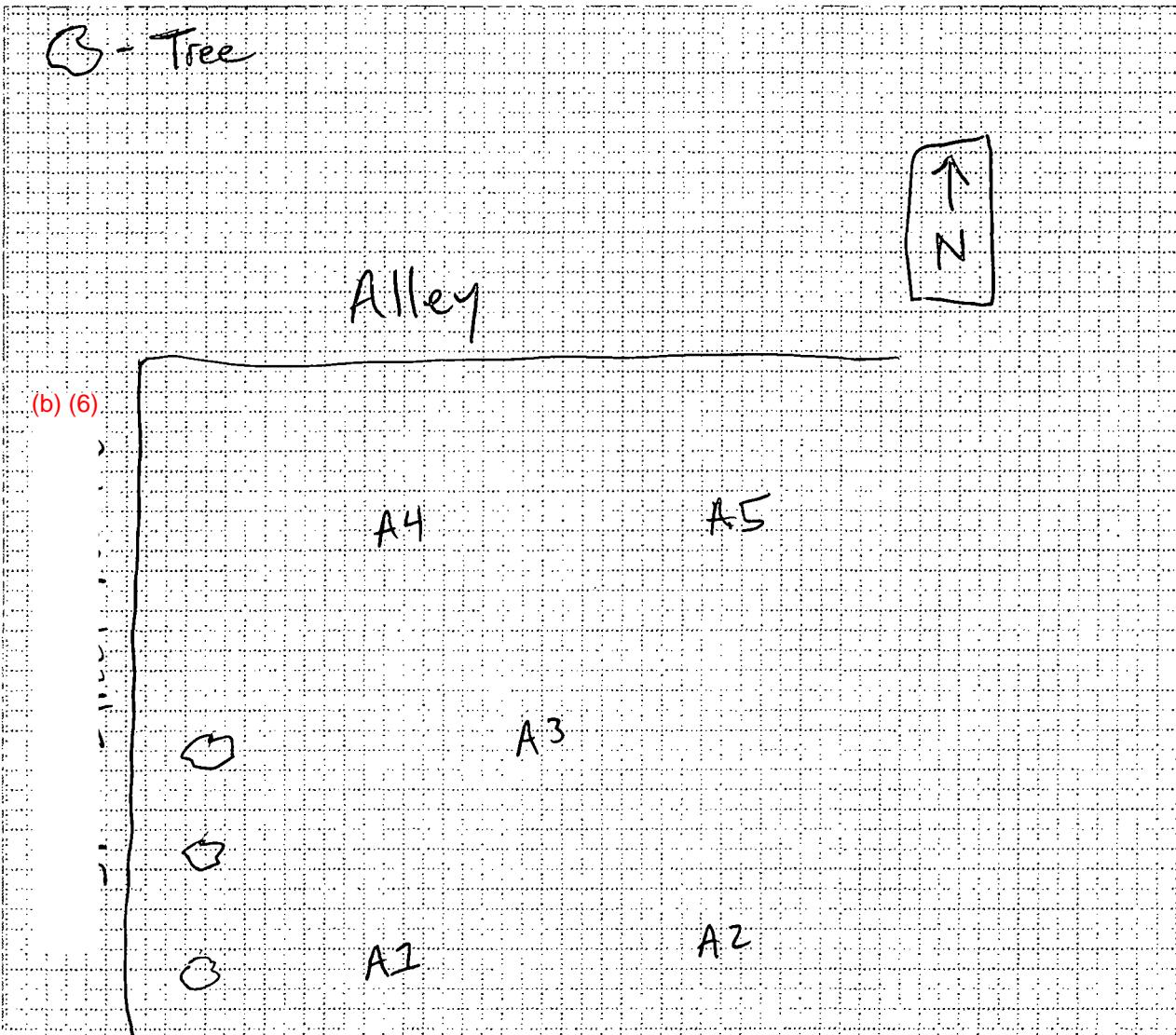
~74°F + cloudy

PROPERTY COMMENTS:

Empty lot at the intersection of (b) (6)

and (b) (6). Only 1-5 point composite  
sample collected due to lot being only  
3,454 square feet.

Grid for property sketch



STATION ID: CV1034 A

SAMPLE ID: CV1034A-CS

SAMPLE COLLECTION TIME: 0825

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV1034 A

GPS Coordinates: Trimble [ ] Instrument #: 020168

Logged? Y or N

Aliquot #1: Latitude: 33.55057808 N Longitude 86.80478470 W

Media description: Dk brn silty clay with coal + pieces of shingle

Aliquot #2: Latitude: 33.55058295 N Longitude 86.80474999 W

Media description: Same as A1

Aliquot #3: Latitude: 33.55068292 N Longitude 86.80475820 W

Media description: Same as A1

Aliquot #4: Latitude: 33.55077018 N Longitude 86.80478131 W

Media description: Same as A1

Aliquot #5: Latitude: 33.55077018 N Longitude 86.80474366 W

Media description: Same as A1

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: \_\_\_\_\_

GPS Coordinates: Trimble [ ] Instrument #: \_\_\_\_\_ Logged? Y or N

Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #2: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

(b) (6)

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV0986

DATE: 5/22/13 ARRIVAL TIME: 0844

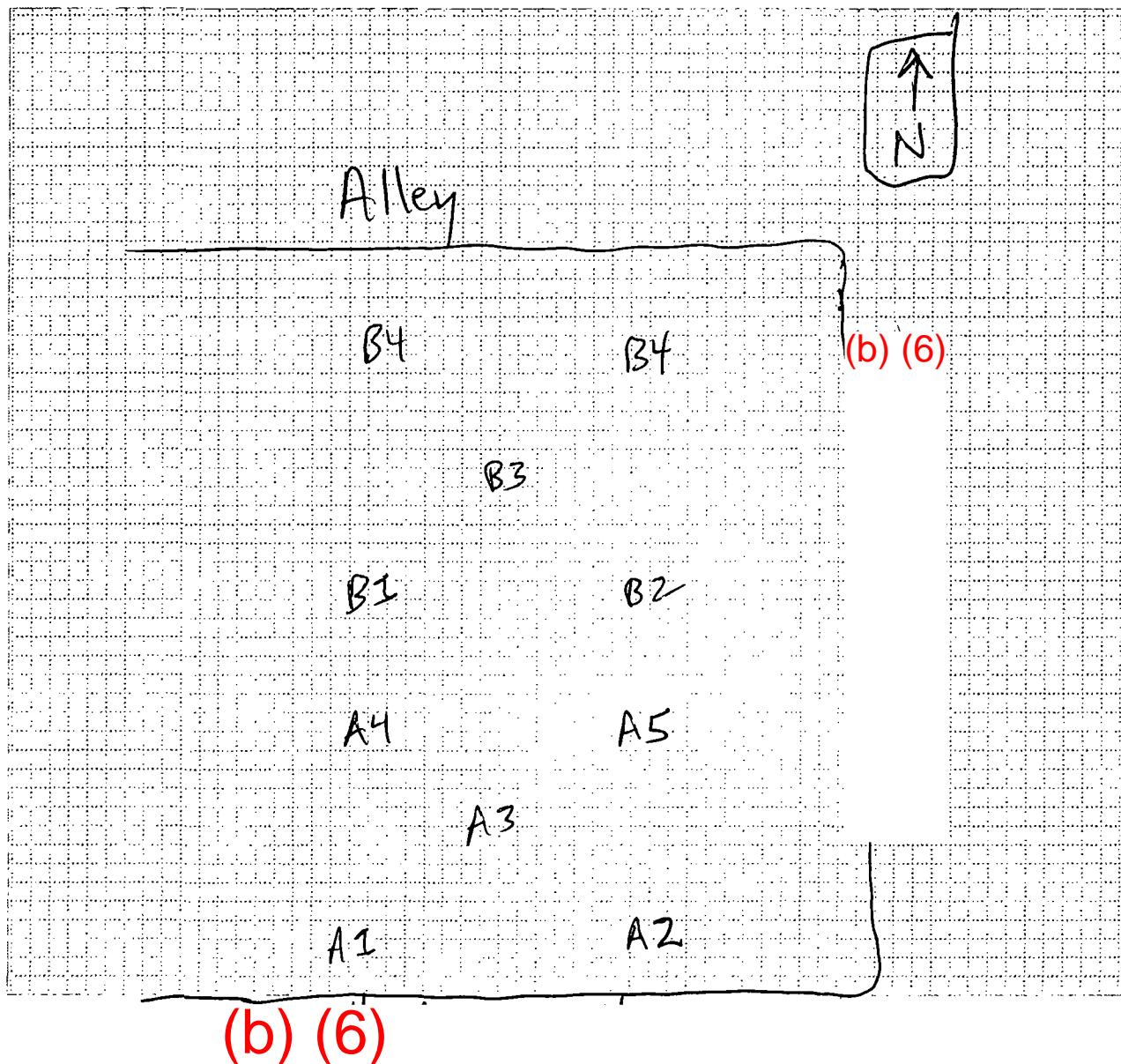
Other pertinent information (weather conditions, etc.):

~74°F & cloudy

PROPERTY COMMENTS:

Empty lot

Grid for property sketch



STATION ID: CV0986A

SAMPLE ID: CV0986A-CS

SAMPLE COLLECTION TIME: 0855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

South half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0986

GPS Coordinates:	Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1:	Latitude:	33.54975882	N Longitude	86.80255527	W
	Media description:	Brn silty clay with coal			
Aliquot #2:	Latitude:	33.54976561	N Longitude	86.80244819	W
	Media description:	Same as A1			
Aliquot #3:	Latitude:	33.54980498	N Longitude	86.80249938	W
	Media description:	DK brn silty clay with coal			
Aliquot #4:	Latitude:	33.54986314	N Longitude	86.80255842	W
	Media description:	Same as B3			
Aliquot #5:	Latitude:	33.54986282	N Longitude	86.80245361	W
	Media description:	Same as B3			

STATION ID: CV0986B

SAMPLE ID: CV0986B-CS

SAMPLE COLLECTION TIME: 0905

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

North half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates:	Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1:	Latitude:	33.54991126	N Longitude	86.80255341	W
	Media description:	DK brn silty clay with coal + gravel			
Aliquot #2:	Latitude:	33.54991995	N Longitude	86.80244505	W
	Media description:	Same as B1			
Aliquot #3:	Latitude:	33.54995458	N Longitude	86.80248741	W
	Media description:	Same as B1			
Aliquot #4:	Latitude:	33.55003100	N Longitude	86.80254565	W
	Media description:	Same as B1			
Aliquot #5:	Latitude:	33.55001441	N Longitude	86.80244987	W
	Media description:	Same as B1			

**(b) (6)**

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV1073

DATE: 5/22/13 ARRIVAL TIME: 0920

Other pertinent information (weather conditions, etc.):

~75° F & cloudy

PROPERTY COMMENTS:

Empty lot with vegetation & trees.

Grid for property sketch

O - Tree

Alley



B4

B5



B3



B1



A4

A3

B2

A5

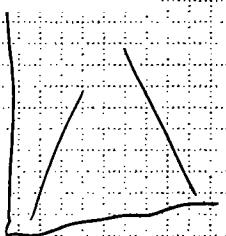
**(b) (6)**

**(b) (6)**

(b) (6)

A2

A1



STATION ID: CV1073A

SAMPLE ID: CV1073A-CS

SAMPLE COLLECTION TIME: 0930

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

North half

Collection: Composite or GrabMS/MSD? Y O NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	<input checked="" type="checkbox"/>	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.55030921	N Longitude	86.80073900	W	
Media description:	Brn sandy silt with gravel				
Aliquot #2 Latitude:	33.55032473	N Longitude	86.80085511	W	
Media description:	Same as A1				
Aliquot #3: Latitude:	33.55027496	N Longitude	86.80080430	W	
Media description:	Same as A1				
Aliquot #4: Latitude:	33.55022568	N Longitude	86.80074059	W	
Media description:	Same as A1				
Aliquot #5: Latitude:	33.55022361	N Longitude	86.80089901	W	
Media description:	Same as A1				

STATION ID: CV1073B- SAMPLE ID: CV1073B-CS

SAMPLE COLLECTION TIME: 0940

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

South half

Collection: Composite or GrabMS/MSD? Y O NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	<input checked="" type="checkbox"/>	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.55016914	N Longitude	86.80072267	W	
Media description:	Brn sandy silt				
Aliquot #2 Latitude:	33.55016470	N Longitude	86.80088943	W	
Media description:	DK brn silty clay				
Aliquot #3: Latitude:	33.55009799	N Longitude	86.80082818	W	
Media description:	Same as B2				
Aliquot #4: Latitude:	33.55005621	N Longitude	86.80074067	W	
Media description:	Same as B2				
Aliquot #5: Latitude:	33.55009336	N Longitude	86.80087078	W	
Media description:	Same as B2				

**(b) (6)**

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV0992

DATE: 5/22/13 ARRIVAL TIME: 1005

Other pertinent information (weather conditions, etc.):

~77°F & cloudy

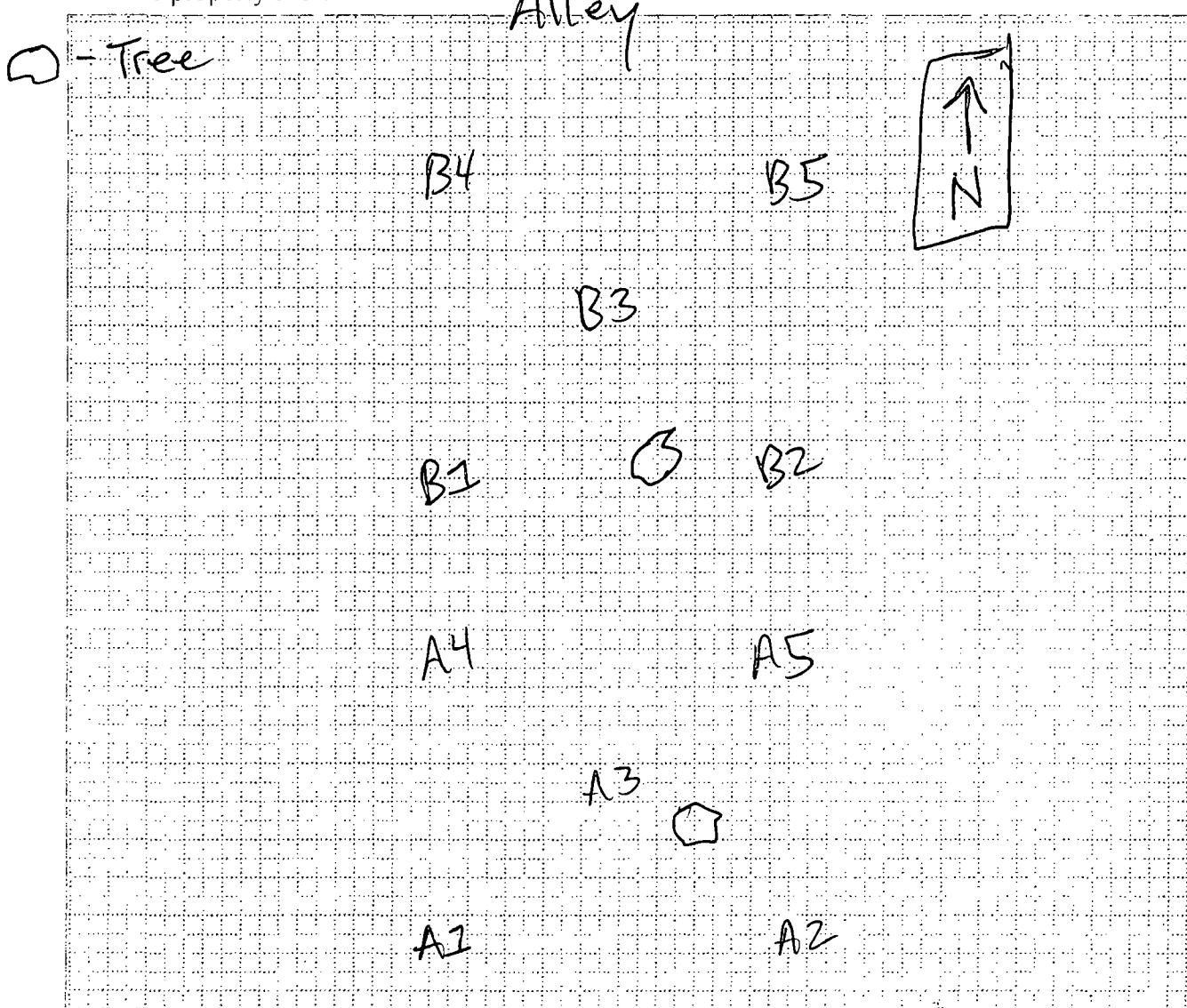
PROPERTY COMMENTS:

Empty lot with thick vegetation and trees.

This lot is adjacent to the east of

CV0991.

Grid for property sketch



**(b) (6)**

STATION ID: CV0992A SAMPLE ID: CV0992A-CS

SAMPLE COLLECTION TIME: 1015

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

South half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble ~~X~~ Instrument #: 020168 Logged? S or N  
Aliquot #1: Latitude: 33.54968272 N Longitude 86.80105854 W  
Media description: Ok brn silty clay with coal  
Aliquot #2 Latitude: 33.54967754 N Longitude 86.80092830 W  
Media description: Same as A1  
Aliquot #3: Latitude: 33.54974552 N Longitude 86.80097626 W  
Media description: Same as A1  
Aliquot #4: Latitude: 33.54980004 N Longitude 86.80104517 W  
Media description: Blk silty clays with coal  
Aliquot #5: Latitude: 33.54979772 N Longitude 86.80096493 W  
Media description: Same as A4

STATION ID: CV0992B SAMPLE ID: CV0992B-CS

SAMPLE COLLECTION TIME: 1025

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

North half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:  
GPS Coordinates: Trimble ~~X~~ Instrument #: 020168 Logged? S or N  
Aliquot #1: Latitude: 33.54983882 N Longitude 86.80106524 W  
Media description: Blk silty clay  
Aliquot #2 Latitude: 33.54983997 N Longitude 86.80096012 W  
Media description: Same as B1  
Aliquot #3: Latitude: 33.54988377 N Longitude 86.80102476 W  
Media description: Same as B1  
Aliquot #4: Latitude: 33.54993322 N Longitude 86.80108931 W  
Media description: Same as B1  
Aliquot #5: Latitude: 33.54995772 N Longitude 86.80106668 W  
Media description: Same as B1

**(b) (6)**

ADDRESS:

DATE: 5/22/13

PROPERTY ID: CV0991

ARRIVAL TIME: 1035

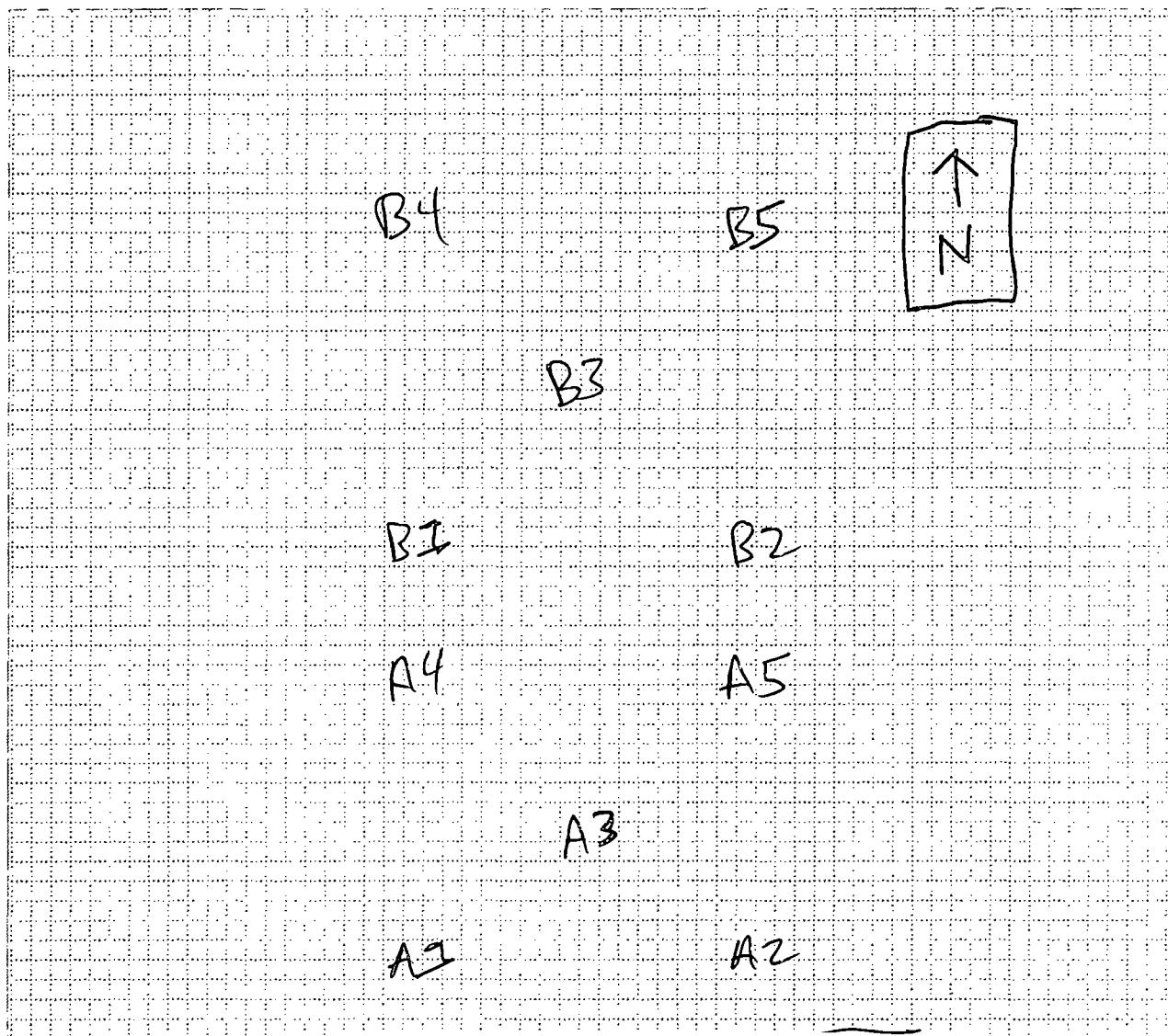
Other pertinent information (weather conditions, etc.):

~78°F & cloudy

PROPERTY COMMENTS:

Empty mowed lot. This lot is adjacent to the west of CV0992.

Grid for property sketch



**(b) (6)**

STATION ID: CV0991A

SAMPLE ID: CV0991A-CS

SAMPLE COLLECTION TIME: 1045

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

South half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: 020168	Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: 33.54970969	N Longitude 86.80123654	W
Media description: Dk brn Silty clays with coal		
Aliquot #2: Latitude: 33.54973528	N Longitude 86.80114415	W
Media description: Same as A1		
Aliquot #3: Latitude: 33.54973967	N Longitude 86.80119070	W
Media description: Same as A1		
Aliquot #4: Latitude: 33.54979962	N Longitude 86.80125100	W
Media description: Same as A1		
Aliquot #5: Latitude: 33.54978386	N Longitude 86.80112294	W
Media description: Same as A1		

STATION ID: CV0991B

SAMPLE ID: CV0991B-CS

SAMPLE COLLECTION TIME: 1055

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

North half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: 020168	Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: 33.54983236	N Longitude 86.80124667	W
Media description: Dk brn silty clay		
Aliquot #2: Latitude: 33.54983030	N Longitude 86.80113137	W
Media description: Same as B1		
Aliquot #3: Latitude: 33.54988374	N Longitude 86.80118009	W
Media description: Gray sand		
Aliquot #4: Latitude: 33.54996482	N Longitude 86.80122896	W
Media description: Same as B1		
Aliquot #5: Latitude: 33.54996085	N Longitude 86.80111764	W
Media description: Blk silty clay with coal		

**(b) (6)**

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV0990

DATE: 5/22/13 ARRIVAL TIME: 1223

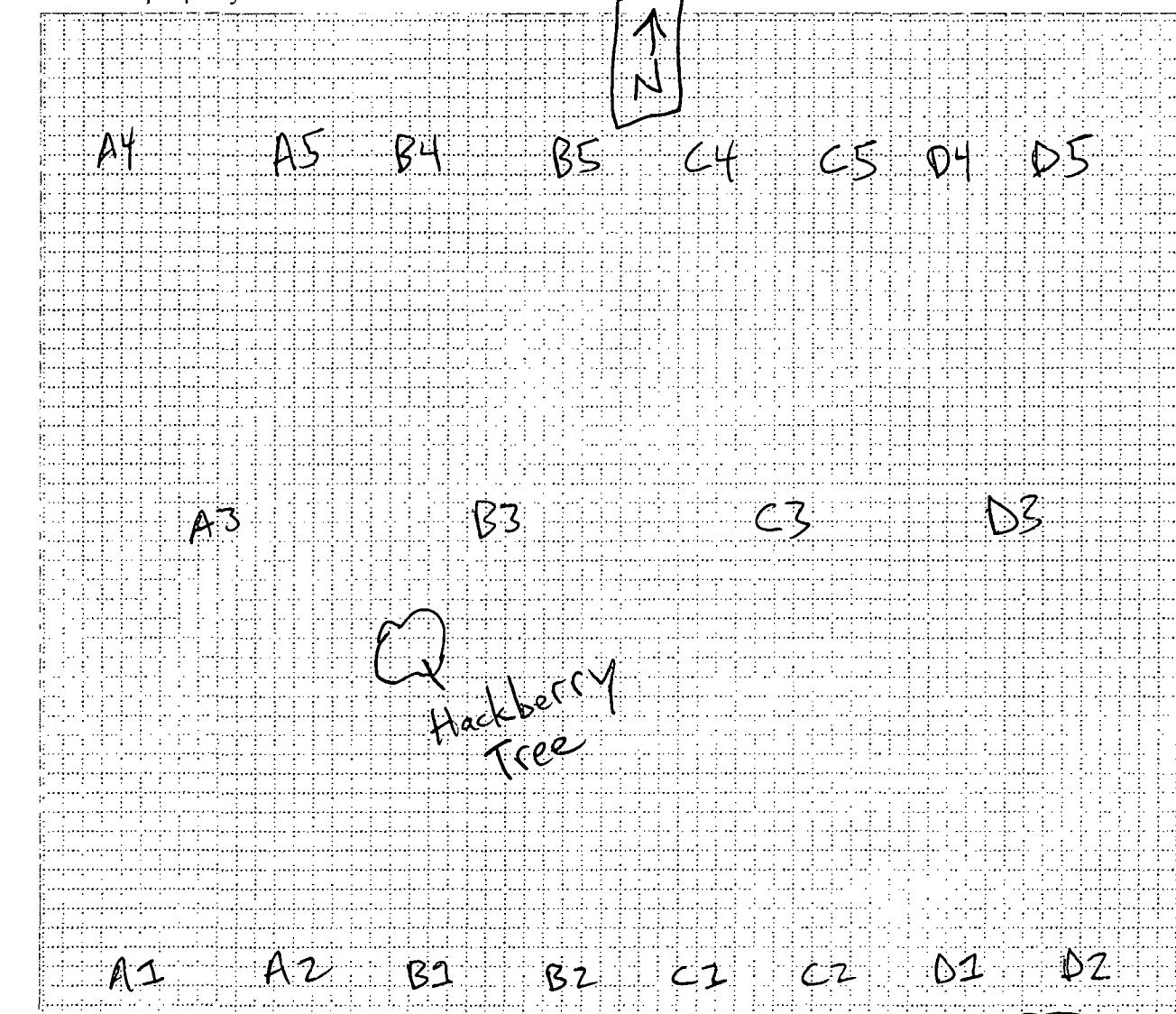
Other pertinent information (weather conditions, etc.):

84°F + cloudy

PROPERTY COMMENTS:

Empty lot with one hackberry tree. From the road to about 15-20 feet into the lot the vegetation is browned out / stressed.

Grid for property sketch



**(b) (6)**

STATION ID: CV0990 A

SAMPLE ID: CV0990 A-CS

SAMPLE COLLECTION TIME: 1235

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

West 1/4 of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.54970868	N Longitude	86.80171466	W
Media description:	DK brn silty clays			
Aliquot #2: Latitude:	33.54969729	N Longitude	86.80166692	W
Media description:	33.54 RS Same as A1			
Aliquot #3: Latitude:	Brn Silty RS 33.54982679	N Longitude	86.80168932	W
Media description:	Brn Silty Sand			
Aliquot #4: Latitude:	33.54993382	N Longitude	86.80171236	W
Media description:	Brn Silty Sand			
Aliquot #5: Latitude:	33.54996670	N Longitude	86.80167999	W
Media description:	Brn Silty Sand			

STATION ID: CV0990 B

SAMPLE ID: CV0990 B-CS

SAMPLE COLLECTION TIME: 1245

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Left center 1/4 of lot

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.54970372	N Longitude	86.80161122	W
Media description:	DK brn silty clays			
Aliquot #2: Latitude:	33.54970154	N Longitude	86.80155456	W
Media description:	Same as B1			
Aliquot #3: Latitude:	33.54981820	N Longitude	86.80158601	W
Media description:	Same as B1			
Aliquot #4: Latitude:	33.54991902	N Longitude	86.80155659	W
Media description:	Brn silty sand			
Aliquot #5: Latitude:	33.54991711	N Longitude	86.80153673	W
Media description:	Same as B1			

**(b) (6)**

ADDRESS:

PROPERTY ID: CV0990

DATE: 5/22/13

ARRIVAL TIME: 1223

Other pertinent information (weather conditions, etc.):

~~84°F cloudy~~

PROPERTY COMMENTS:

See page 30.

Grid for property sketch

*See sketch on page 30.*

STATION ID: CV0990C SAMPLE ID: CV0990C-CS

SAMPLE COLLECTION TIME: 1255

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Right center 1/4 of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.54970408	N Longitude	86.80150809	W
Media description:	Dk brn silty clays			
Aliquot #2: Latitude:	33.54970784	N Longitude	86.80146213	W
Media description:	Same as C1			
Aliquot #3: Latitude:	33.54983346	N Longitude	86.80147962	W
Media description:	Blk silty clays			
Aliquot #4: Latitude:	33.54991628	N Longitude	86.80149650	W
Media description:	Same as C3			
Aliquot #5: Latitude:	33.54992633	N Longitude	86.80143803	W
Media description:	Same as C3			

STATION ID: CV0990D SAMPLE ID: CV0990D-CS

SAMPLE COLLECTION TIME: 1305<sup>18</sup> 1310

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

East 1/4 of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.54967670	N Longitude	86.80139212	W
Media description:	Dk brn silty clay with coal			
Aliquot #2: Latitude:	33.54967273	N Longitude	86.80131342	W
Media description:	Same as D1			
Aliquot #3: Latitude:	33.54981025	N Longitude	86.80135586	W
Media description:	Same as D1			
Aliquot #4: Latitude:	33.54992437	N Longitude	86.80138243	W
Media description:	Same as D1			
Aliquot #5: Latitude:	33.54993531	N Longitude	86.80131981	W
Media description:	Same as D1			

**(b) (6)**

ADDRESS:

DATE: 5/22/13

PROPERTY ID: CV1081

ARRIVAL TIME: 1336

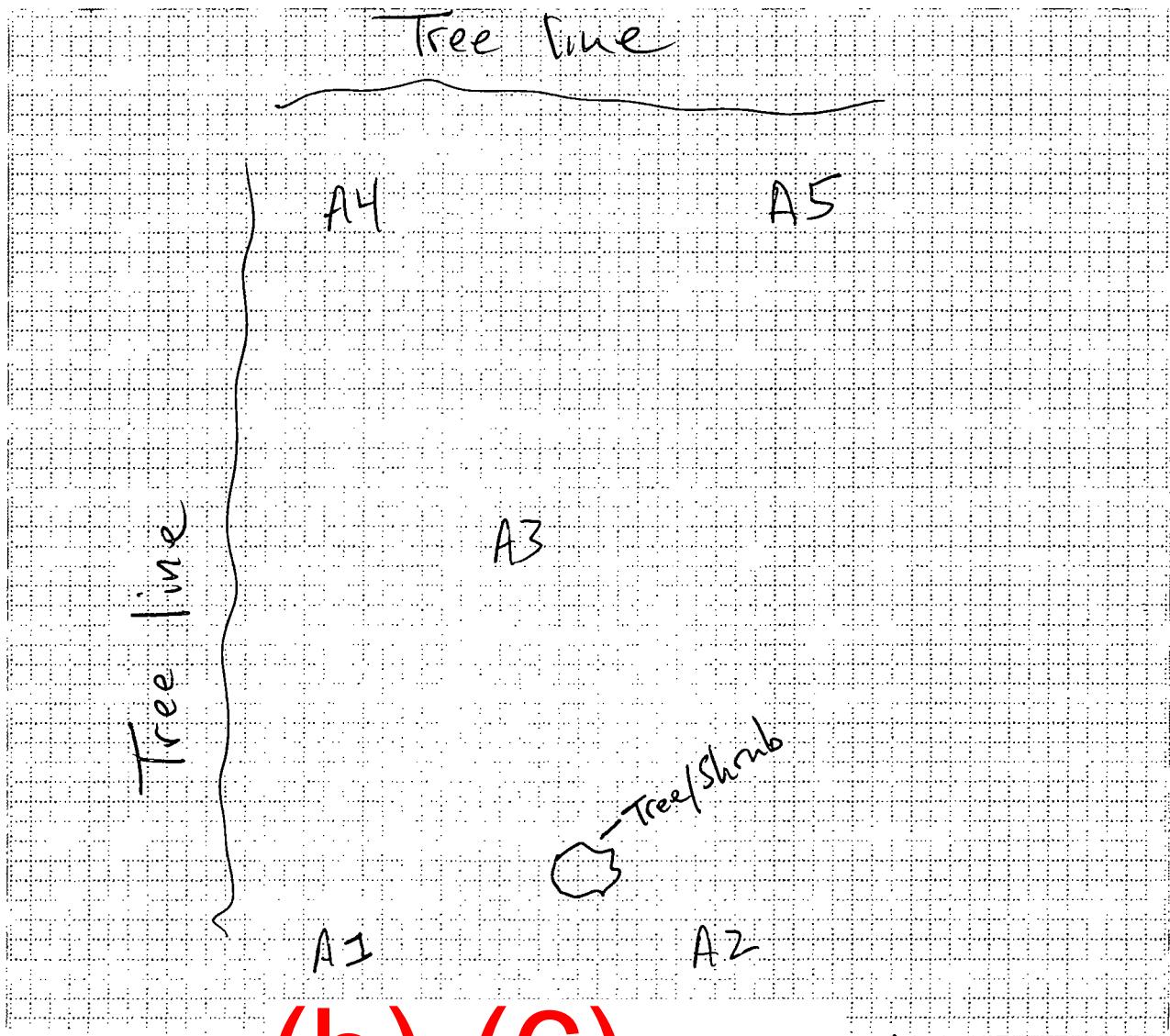
Other pertinent information (weather conditions, etc.):

~86°F + cloudy

PROPERTY COMMENTS:

Empty lot with thick vegetation.

Grid for property sketch



**(b) (6)**

STATION ID: CV1081 A

SAMPLE ID: CV1081A-CS

SAMPLE COLLECTION TIME: 1350

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ]	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.55015927	N Longitude	86.79999561 W
Media description:	dk brn silty clay with coal		
Aliquot #2: Latitude:	33.55014215	N Longitude	86.80008663 W
Media description:	Same as A1		
Aliquot #3: Latitude:	33.55007039	N Longitude	86.80004294 W
Media description:	Same as A1		
Aliquot #4: Latitude:	33.54999733	N Longitude	86.80002277 W
Media description:	Same as A1		
Aliquot #5: Latitude:	33.54998771	N Longitude	86.80009192 W
Media description:	Same as A1		

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ]	Instrument #:	Logged? Y or N
Aliquot #1: Latitude:	N Longitude	W
Media description:		
Aliquot #2: Latitude:	N Longitude	W
Media description:		
Aliquot #3: Latitude:	N Longitude	W
Media description:		
Aliquot #4: Latitude:	N Longitude	W
Media description:		
Aliquot #5: Latitude:	N Longitude	W
Media description:		

(b) (6)

ADDRESS:

PROPERTY ID: CV1084

DATE: 5/22/13

ARRIVAL TIME: 1400

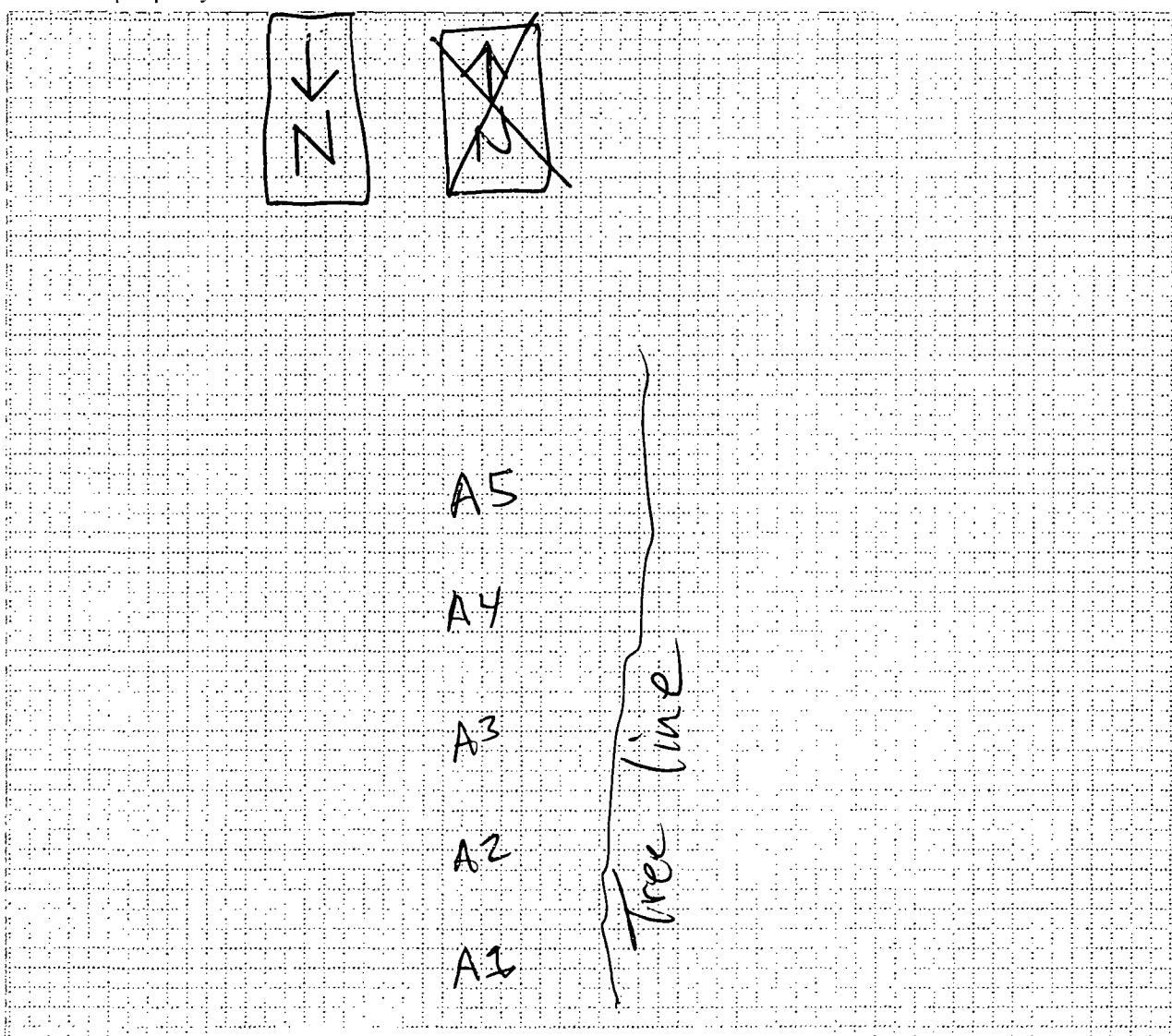
Other pertinent information (weather conditions, etc.):

~86°F + cloudy

PROPERTY COMMENTS:

Small narrow empty lot

Grid for property sketch



(b) (6)

STATION ID: CV1084A

SAMPLE ID: CV1084A-CS

SAMPLE COLLECTION TIME: 1405

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Down the center of the lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ] Instrument #: 820168 Logged? Y or N  
Aliquot #1: Latitude: 33.55009959 N Longitude 86.79979249 W  
Media description: Lt. brn + orange silty clay with coal  
Aliquot #2: Latitude: 33.55007466 N Longitude 86.79985231 W  
Media description: Same as A1  
Aliquot #3: Latitude: 33.55005860 N Longitude 86.79983898 W  
Media description: Same as A1  
Aliquot #4: Latitude: 33.55002921 N Longitude 86.79983886 W  
Media description: Same as A1  
Aliquot #5: Latitude: 33.54998509 N Longitude 86.79985500 W  
Media description: dk brn silty clay

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ] Instrument #: \_\_\_\_\_ Logged? Y or N  
Aliquot #1: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Media description: \_\_\_\_\_  
Aliquot #2: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Media description: \_\_\_\_\_  
Aliquot #3: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Media description: \_\_\_\_\_  
Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Media description: \_\_\_\_\_  
Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Media description: \_\_\_\_\_

**(b) (6)**

ADDRESS:

PROPERTY ID: CV0996

DATE: 5/22/13

ARRIVAL TIME: 1420

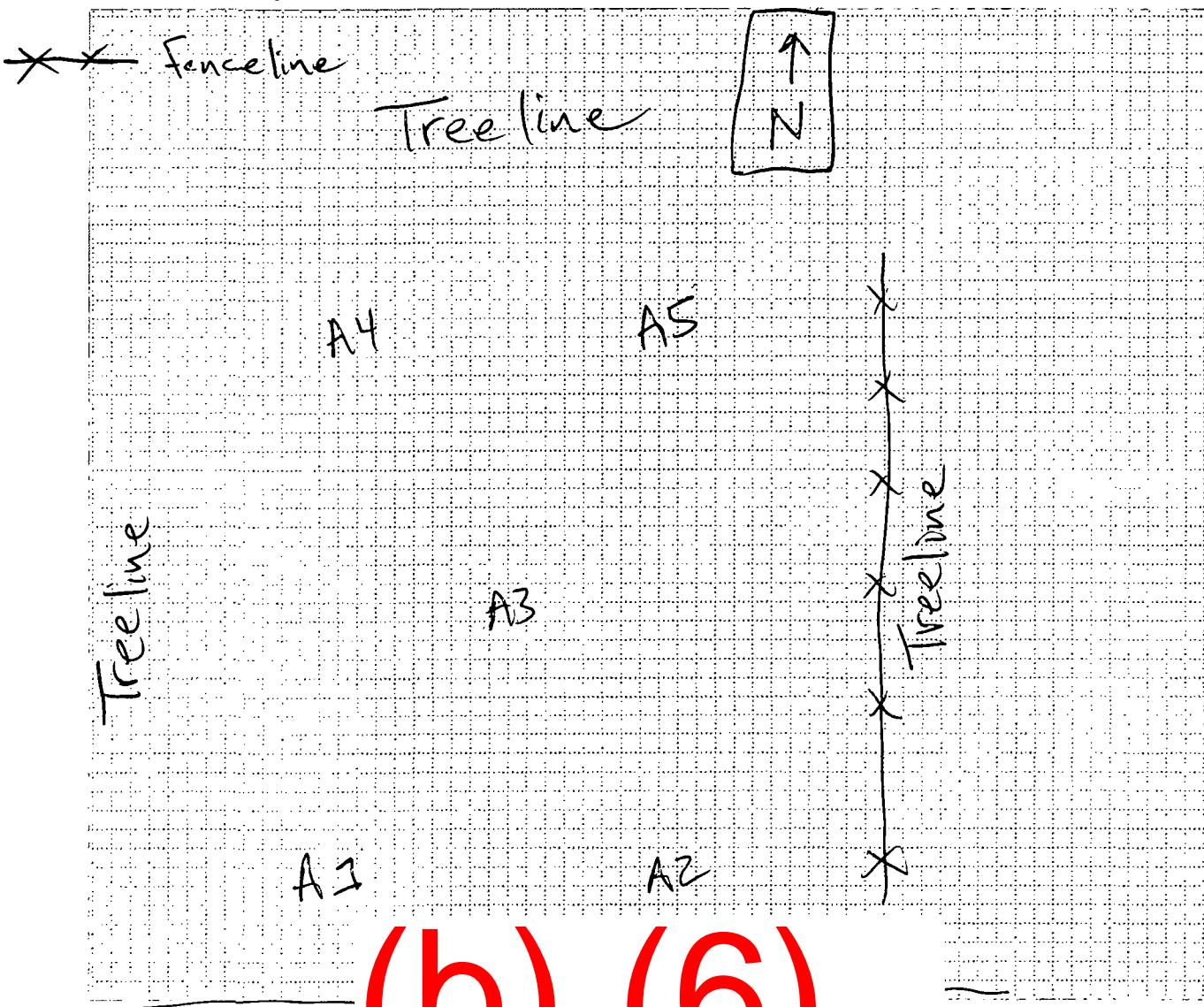
Other pertinent information (weather conditions, etc.):

+86°F +cloudy

PROPERTY COMMENTS:

Empty lot with thick vegetation and a tree lines on 3 sides.

Grid for property sketch



**(b) (6)**

STATION ID: CV0996A

SAMPLE ID: CV0996A

SAMPLE COLLECTION TIME: 1105 RS 1425

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.54965537	N Longitude	86.80005648 W
Media description:	Dk brn silty clay		
Aliquot #2: Latitude:	33.54961240	N Longitude	86.80002076 W
Media description:	Same as A1		
Aliquot #3: Latitude:	33.54972671	N Longitude	86.80004744 W
Media description:	Same as A1		
Aliquot #4: Latitude:	33.54982896	N Longitude	86.80007822 W
Media description:	Same as A1		
Aliquot #5: Latitude:	33.54982094	N Longitude	86.80002467 W
Media description:	Same as A1		

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ]	Instrument #:	Logged? Y or N
Aliquot #1: Latitude:	N Longitude	W
Media description:		
Aliquot #2: Latitude:	N Longitude	W
Media description:		
Aliquot #3: Latitude:	N Longitude	W
Media description:		
Aliquot #4: Latitude:	N Longitude	W
Media description:		
Aliquot #5: Latitude:	N Longitude	W
Media description:		

(b) (6)

ADDRESS:

DATE: 5/22/13

PROPERTY ID: CV1002

ARRIVAL TIME: 1440

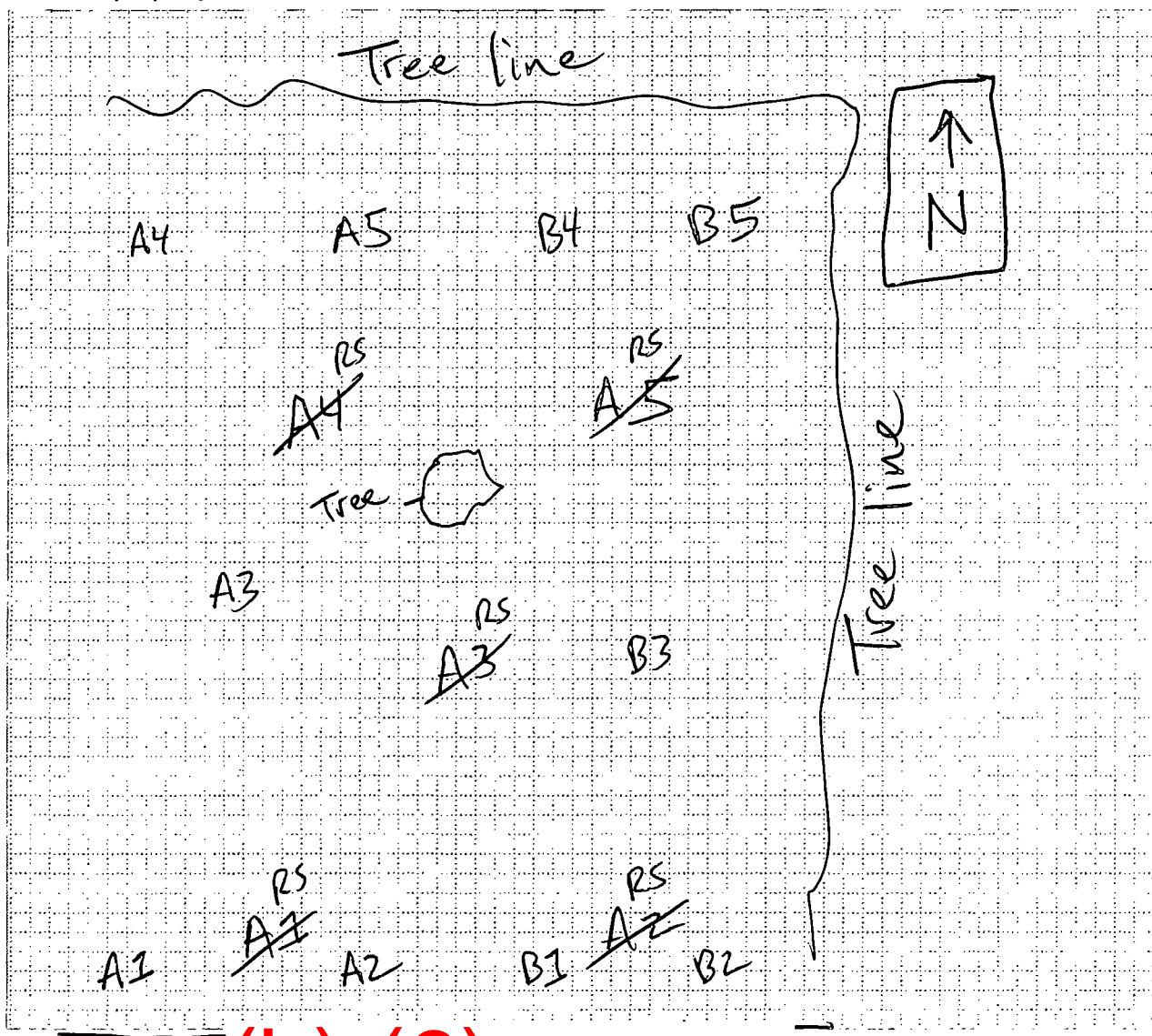
Other pertinent information (weather conditions, etc.):

~86°F + cloudy

PROPERTY COMMENTS:

Empty lot with tree lines to north  
and east.

Grid for property sketch



(b) (6)

STATION ID: CV1002A

SAMPLE ID: CV1002A-CS

SAMPLE COLLECTION TIME: 1455

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

West half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	620168	Logged? Y or N
Aliquot #1: Latitude:	33.54961501	N Longitude	86.79912452 W
Media description:	Brn silty clay		
Aliquot #2: Latitude:	33.54961453	N Longitude	86.79908176 W
Media description:	Same as A1		
Aliquot #3: Latitude:	33.54969225	N Longitude	86.79910408 W
Media description:	Dk brn silty clay		
Aliquot #4: Latitude:	33.54978646	N Longitude	86.79912192 W
Media description:	Same as A3		
Aliquot #5: Latitude:	33.54977700	N Longitude	86.79905343 W
Media description:	Same as A3		

STATION ID: CV1002B

SAMPLE ID: CV1002B

SAMPLE COLLECTION TIME: 1505

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

East half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	620168	Logged? Y or N
Aliquot #1: Latitude:	33.54962916	N Longitude	86.79900766 W
Media description:	Brn silty clays		
Aliquot #2: Latitude:	33.54960601	N Longitude	86.79892633 W
Media description:	Same as B1		
Aliquot #3: Latitude:	33.54970008	N Longitude	86.79895361 W
Media description:	Brn + orange silty clay with coal		
Aliquot #4: Latitude:	33.54979399	N Longitude	86.79901787 W
Media description:	Dk brn silty clay with coal		
Aliquot #5: Latitude:	33.54976895	N Longitude	86.79891463 W
Media description:	Same as B4		

**(b) (6)**

ADDR

DATE: 5/23/13

PROPERTY ID: CV0978

ARRIVAL TIME: 0920

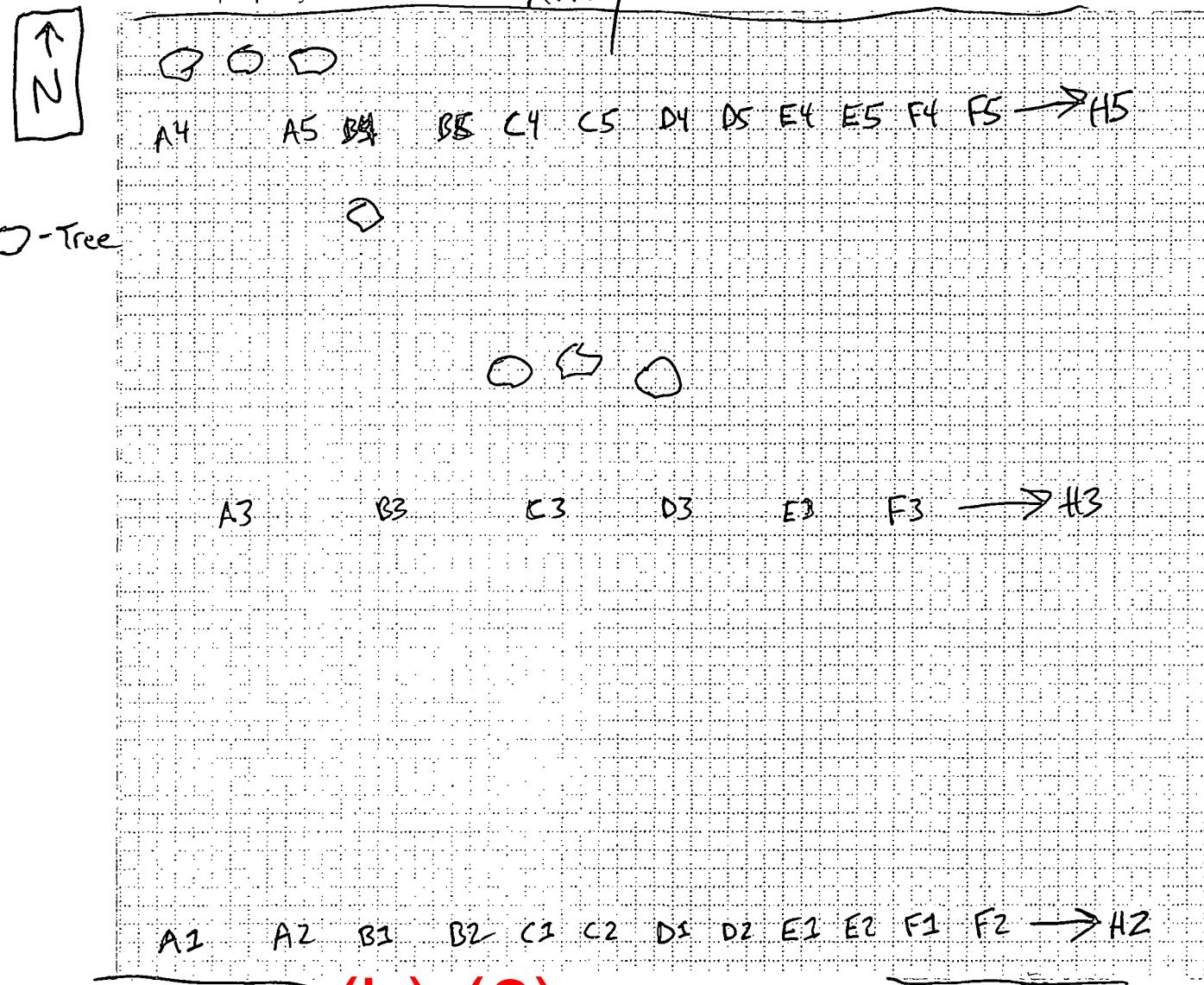
Other pertinent information (weather conditions, etc.):

~78°F & partly cloudy

PROPERTY COMMENTS:

Large empty ~~for RS~~ lot. Splitting lot into eighths. 8 five point ~~comple~~ RS composite samples. Stations CV0978A thru CV0978 H. High vegetation throughout lot.

Grid for property sketch



**(b) (6)**

STATION ID: CV0978A SAMPLE ID: CV0978A-CS

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

1<sup>st</sup> eighth (from left to right) with 27<sup>th</sup> Ave N to your back.

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0978A

GPS Coordinates: Trimble ~~X~~ Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.54976414 N Longitude 86.80483880 W

Media description: Dk brn silty clay with coal

Aliquot #2: Latitude: 33.54976400 N Longitude 86.80478405 W

Media description: Same as A1

Aliquot #3: Latitude: 33.54990199 N Longitude 86.80480337 W

Media description: Same as A1

Aliquot #4: Latitude: 33.55004904 N Longitude 86.80483527 W

Media description: Same as A1

Aliquot #5: Latitude: 33.55004661 N Longitude 86.80478247 W

Media description: Same as A1

STATION ID: CV0978B SAMPLE ID: CV0978B-CS

SAMPLE COLLECTION TIME: 1000

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

2<sup>nd</sup> eighth

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0978B

GPS Coordinates: Trimble ~~X~~ Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.54976346 N Longitude 86.80472138 W

Media description: Dk brn silty clay with coal + slag

Aliquot #2: Latitude: 33.54976120 N Longitude 86.80466035 W

Media description: Same as B1

Aliquot #3: Latitude: 33.54988659 N Longitude 86.80468698 W

Media description: Dk brn silty sand with coal

Aliquot #4: Latitude: 33.55003484 N Longitude 86.80471490 W

Media description: Same as B3

Aliquot #5: Latitude: 33.55003247 N Longitude 86.80464728 W

Media description: Same as B3

**(b) (6)**

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV0978  
DATE: 5/23/13 ARRIVAL TIME: 0920

Other pertinent information (weather conditions etc.):

~78°F + partly cloudy

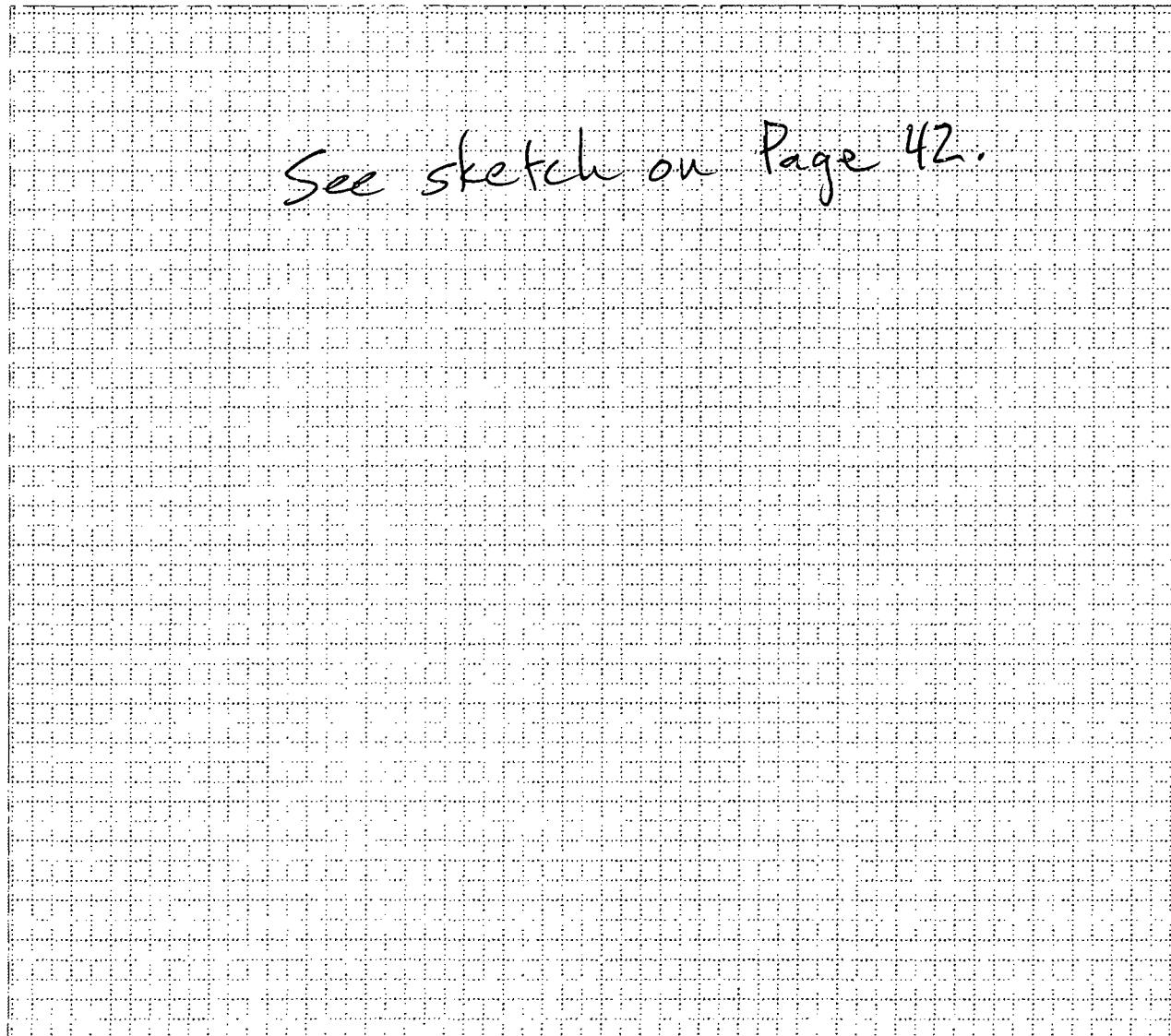
PROPERTY COMMENTS:

See comments on Page 42.

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Grid for property sketch



STATION ID: CV0978C

SAMPLE ID: CV0978C-CS

SAMPLE COLLECTION TIME: 1015

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

3<sup>rd</sup> Eighth

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.54975930	N Longitude	86.80459496 W
Media description:	Dk brn silty clay with coal		
Aliquot #2: Latitude:	33.54975997	N Longitude	86.80452809 W
Media description:	Same as C1		
Aliquot #3: Latitude:	33.54986907	N Longitude	86.80454550 W
Media description:	Same as C1		
Aliquot #4: Latitude:	33.55003460	N Longitude	86.80458163 W
Media description:	Same as C1		
Aliquot #5: Latitude:	33.55003261	N Longitude	86.80451356 W
Media description:	Same as C1		

STATION ID: CV0978D

SAMPLE ID: CV0978D-CS

SAMPLE COLLECTION TIME: 1030

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

4<sup>th</sup> Eighth

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble	Instrument #:	020168	Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.54976035	N Longitude	86.80446172 W
Media description:	Dk brn silty clay with coal		
Aliquot #2: Latitude:	33.54975443	N Longitude	86.80439378 W
Media description:	Same as D1		
Aliquot #3: Latitude:	33.54987966	N Longitude	86.80441126 W
Media description:	Same as D1		
Aliquot #4: Latitude:	33.55003379	N Longitude	86.80444874 W
Media description:	Blk silty clay with coal + glass		
Aliquot #5: Latitude:	33.55002732	N Longitude	86.80437570 W
Media description:	Same as D4		

**(b) (6)**

ADDRESS: \_\_\_\_\_ PROPERTY ID: CV0978

DATE: 5/23/13 ARRIVAL TIME: 0920

Other pertinent information (weather conditions, etc.):

~78°F & partly cloudy

PROPERTY COMMENTS:

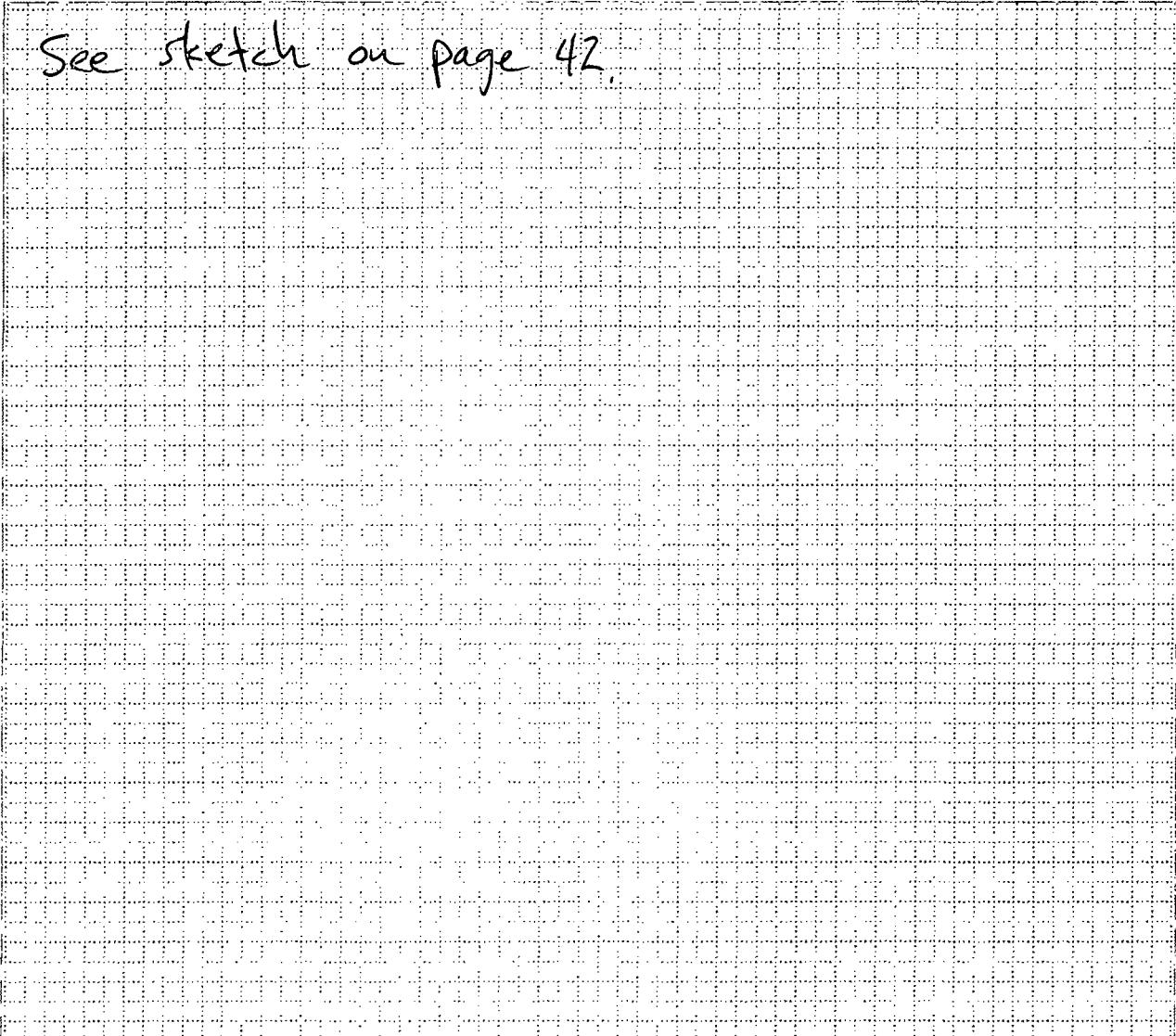
See comments on page 42.

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Grid for property sketch

See sketch on page 42.



STATION ID: CV0978E SAMPLE ID: CV0978E-CS

SAMPLE COLLECTION TIME: 1045

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

5th Eighth

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.54974967	N Longitude	86.80432842	W
Media description:	Dk brn silty clay with coal			
Aliquot #2: Latitude:	33.54974754	N Longitude	86.80426240	W
Media description:	Same as E1			
Aliquot #3: Latitude:	33.54987904	N Longitude	86.80425817	W
Media description:	Same as E1			
Aliquot #4: Latitude:	33.55004964	N Longitude	86.80430165	W
Media description:	Blk silty clay with coal			
Aliquot #5: Latitude:	33.55004533	N Longitude	86.80423515	W
Media description:	Same as E4			

STATION ID: CV0978F SAMPLE ID: CV0978F-CS

SAMPLE COLLECTION TIME: 1100

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

6th Eighth

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.54974416	N Longitude	86.80419702	W
Media description:	Dk brn silty clays with coal + glass			
Aliquot #2: Latitude:	33.54974457	N Longitude	86.80412789	W
Media description:	Same as F1			
Aliquot #3: Latitude:	33.54989305	N Longitude	86.80411995	W
Media description:	Same as F1			
Aliquot #4: Latitude:	33.55003985	N Longitude	86.80417738	W
Media description:	Blk silty clay with coal + glass			
Aliquot #5: Latitude:	33.55004060	N Longitude	86.80410931	W
Media description:	Same as F4			

**(b) (6)**

ADDRESS: \_\_\_\_\_ PROPERTY ID: CU0978

DATE: 5/23/13 ARRIVAL TIME: 0920

Other pertinent information (weather conditions, etc.):

~80F + partly cloudy

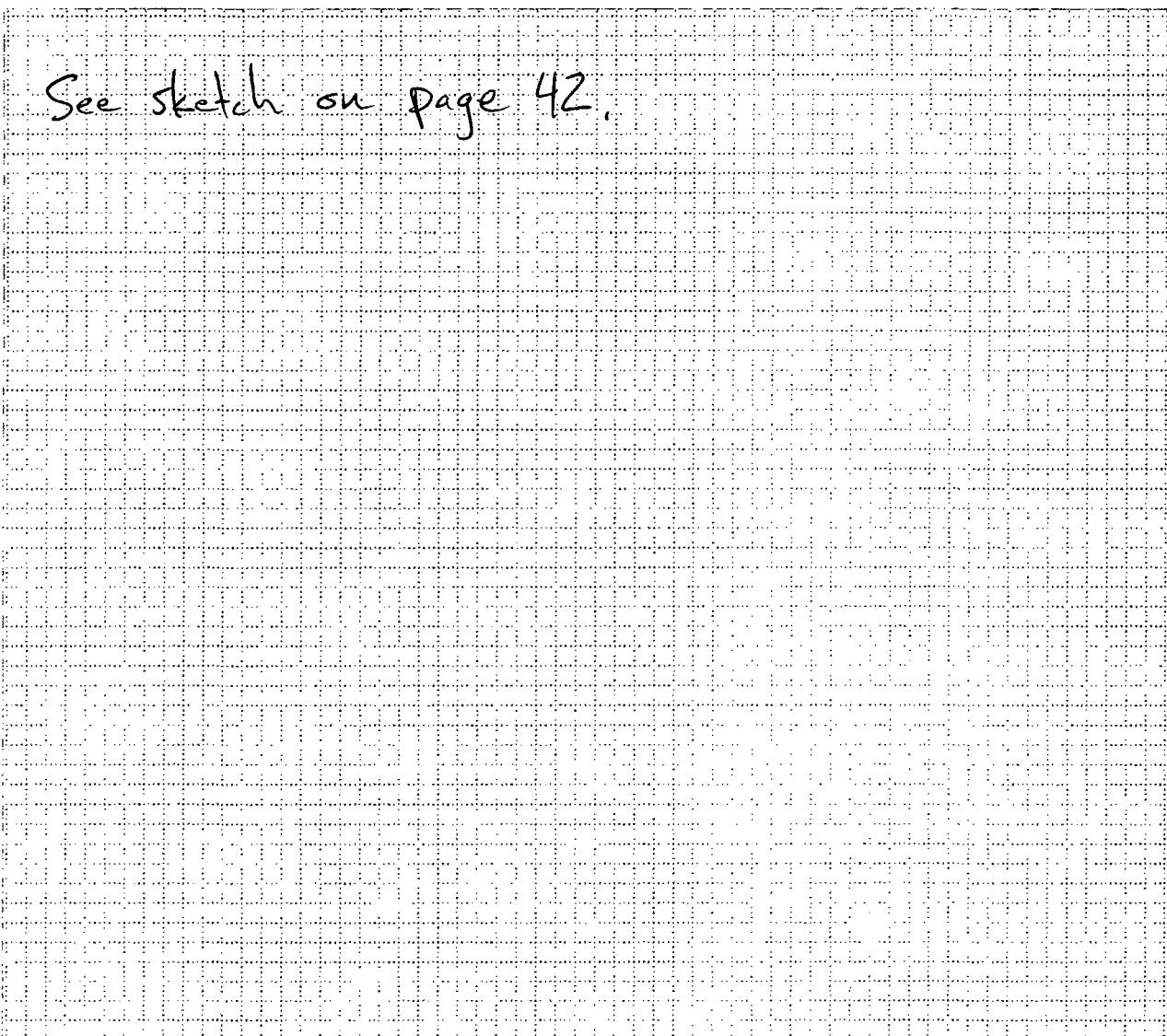
PROPERTY COMMENTS:

See comments on page 42.

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Grid for property sketch



STATION ID: CV0978 G

SAMPLE ID: CV0978G-CS

SAMPLE COLLECTION TIME: 1115

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

7<sup>th</sup> Eighth

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.54974058	N Longitude	86.80405789 W
Media description:	DK brn silty clay with coal		
Aliquot #2: Latitude:	33.54973912	N Longitude	86.80398891 W
Media description:	DK brn silty clay with gray sand + coal		
Aliquot #3: Latitude:	33.54989640	N Longitude	86.80399491 W
Media description:	BLK silty clay with coal		
Aliquot #4: Latitude:	33.55003478	N Longitude	86.80404326 W
Media description:	Same as G3 with gravel		
Aliquot #5: Latitude:	33.55003659	N Longitude	86.80398117 W
Media description:	Same as G3		

STATION ID: CV0978H

SAMPLE ID: CV0978H-CS

SAMPLE COLLECTION TIME: 1130

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

8<sup>th</sup> Eighth

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.54974007	N Longitude	86.80391585 W
Media description:	DK brn silty clay		
Aliquot #2: Latitude:	33.54973942	N Longitude	86.80385218 W
Media description:	Same as H1		
Aliquot #3: Latitude:	33.54989506	N Longitude	86.80387157 W
Media description:	DK brn + red silty clay		
Aliquot #4: Latitude:	33.55003541	N Longitude	86.80391559 W
Media description:	BLK silty clay		
Aliquot #5: Latitude:	33.55003432	N Longitude	86.80384205 W
Media description:	Same as H4		

**(b) (6)**

ADDRESS:

DATE: 5/23/13

PROPERTY ID: CV1301

ARRIVAL TIME: 1250

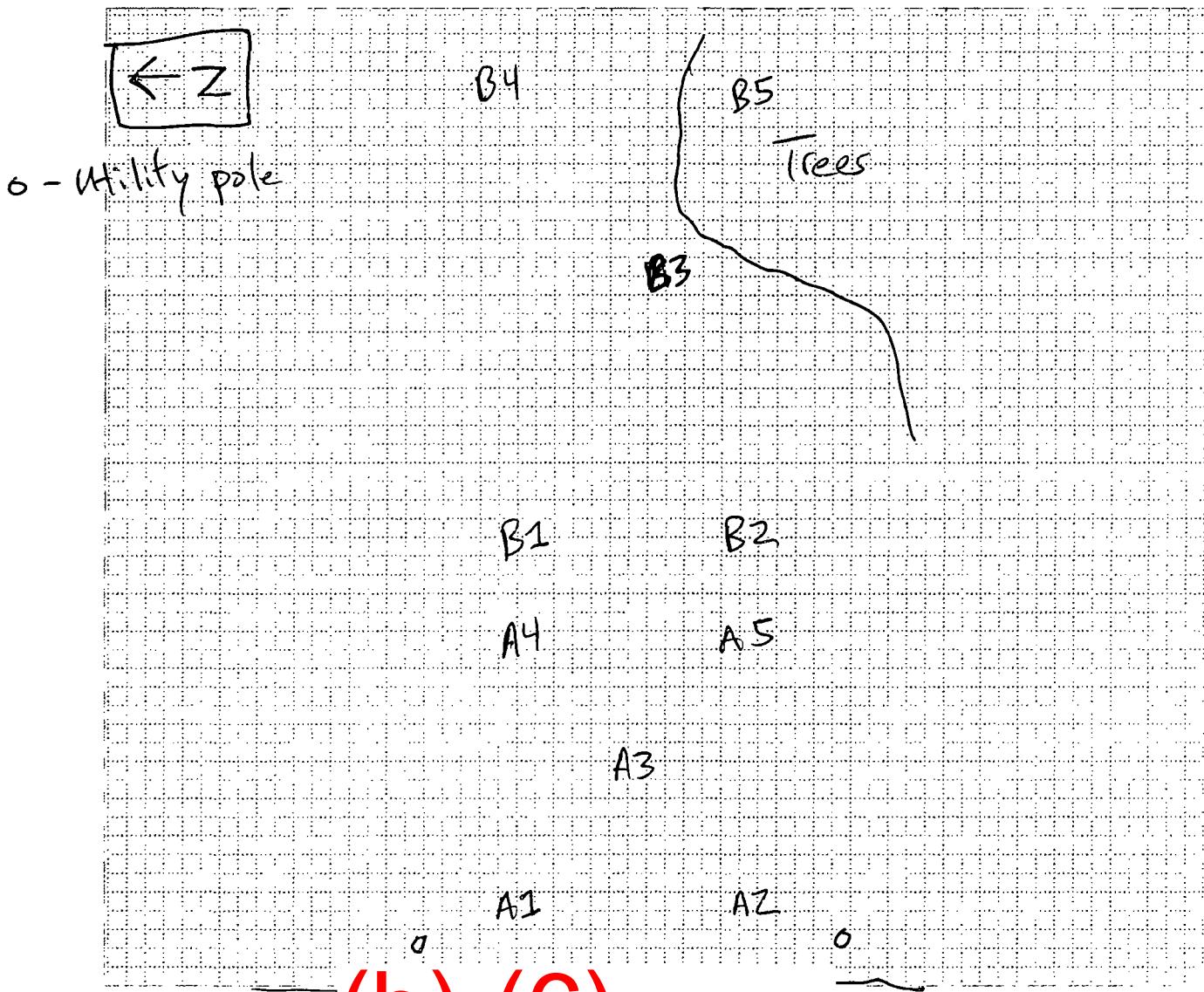
Other pertinent information (weather conditions, etc.)

~86°F + partly cloudy

PROPERTY COMMENTS:

Empty lot with trees in the southeast corner.

Grid for property sketch



**(b) (6)**

STATION ID: CV1301A

SAMPLE ID: CV1301A-CS

SAMPLE COLLECTION TIME: 1300

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

West half

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.55122837	N Longitude	86.80050307	W
Media description:	Bru silty clays			
Aliquot #2: Latitude:	33.55114598	N Longitude	86.80049317	W
Media description:	Dk bru silty clay			
Aliquot #3: Latitude:	33.55118873	N Longitude	86.80042995	W
Media description:	Orange clay			
Aliquot #4: Latitude:	Same A1	N Longitude	86.80038258	W
Media description:	33.551230252			
Aliquot #5: Latitude:	33.55115418	N Longitude	86.80038030	W
Media description:	Orange clay			

STATION ID: CV1301B

SAMPLE ID: CV1301B-CS

SAMPLE COLLECTION TIME: 1310

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

East half

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.55122839	N Longitude	86.80031425	W
Media description:	Lt bru silty clay			
Aliquot #2: Latitude:	33.55113249	N Longitude	86.80030085	W
Media description:	Dk bru silty clay			
Aliquot #3: Latitude:	33.55117815	N Longitude	86.80018673	W
Media description:	Same as B2			
Aliquot #4: Latitude:	33.55123850	N Longitude	86.80006220	W
Media description:	Same as B2			
Aliquot #5: Latitude:	33.55115370	N Longitude	86.80004500	W
Media description:	Same as B2 with coal			

ADDRESS: (b) (6)

PROPERTY ID: CV1164

DATE: 5/23/13

ARRIVAL TIME: 1325

Other pertinent information (weather conditions, etc.):

~86°F + partly cloudy

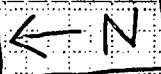
PROPERTY COMMENTS:

Empty lot with treelines on the east, south + west boundaries. The lot doesn't front on a street. Three 5-point composite samples collected.

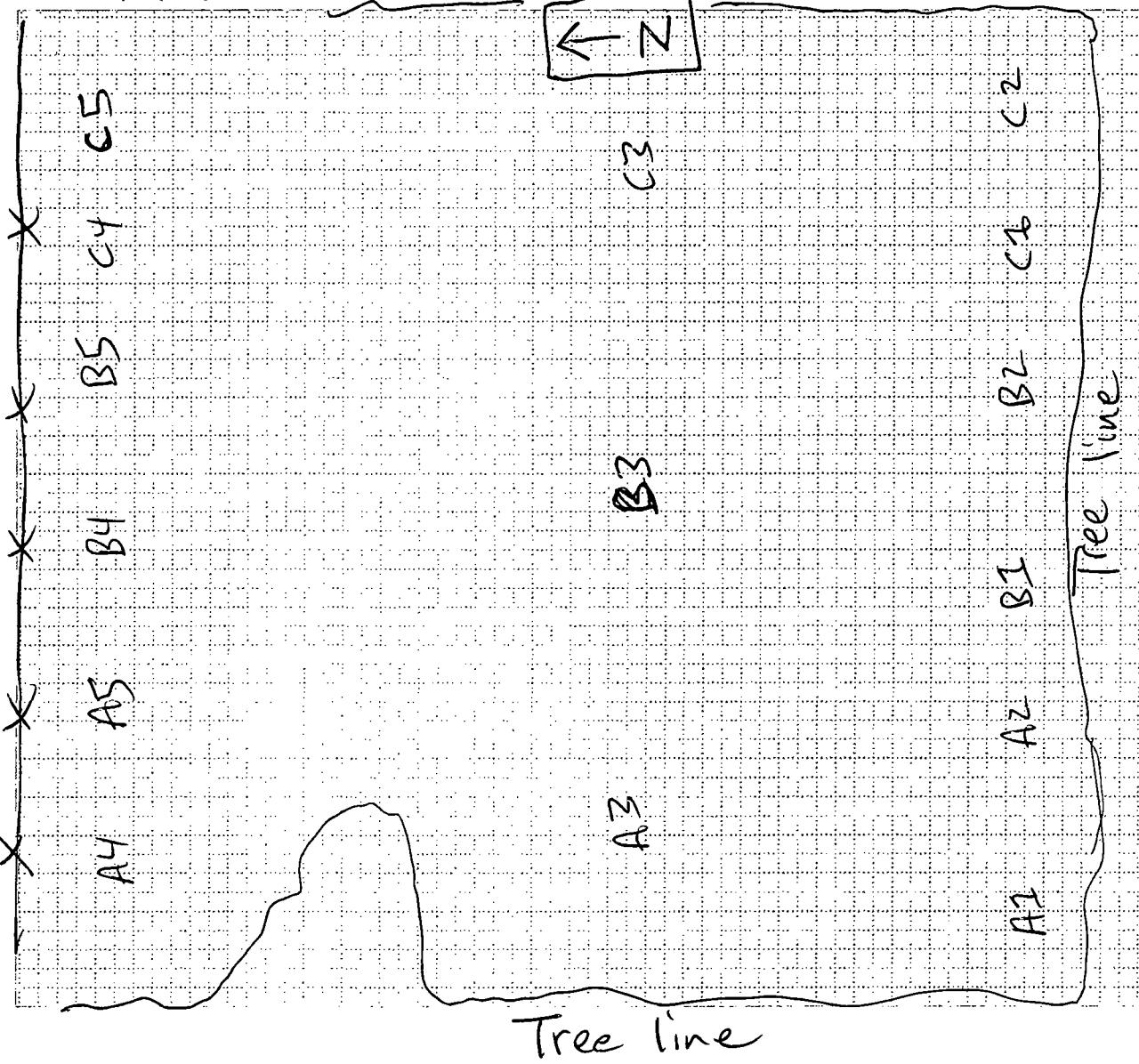
Grid for property sketch

Tree line

Tree line



Fence line with razorbarb wire



STATION ID: CV1164A SAMPLE ID: CV1164A-CS

SAMPLE COLLECTION TIME: 1335

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

West third of lot

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.55099460	N Longitude	86.79989812 W
Media description:	dk brn silty clay		
Aliquot #2: Latitude:	33.55100394	N Longitude	86.79984860 W
Media description:	Same as A1		
Aliquot #3: Latitude:	33.55111209	N Longitude	86.79992256 W
Media description:	Same as A1		
Aliquot #4: Latitude:	33.55120519	N Longitude	86.79994147 W
Media description:	Same as A1		
Aliquot #5: Latitude:	33.55120241	N Longitude	86.79984251 W
Media description:	Same as A1		

STATION ID: CV1164B SAMPLE ID: CV1164B-CS

SAMPLE COLLECTION TIME: 1345

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Middle third of lot

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.55099891	N Longitude	86.79979399 W
Media description:	Brn silty clay		
Aliquot #2: Latitude:	33.55099822	N Longitude	86.79972872 W
Media description:	Same as B1		
Aliquot #3: Latitude:	33.55110395	N Longitude	86.79974221 W
Media description:	Same as B1		
Aliquot #4: Latitude:	33.55120161	N Longitude	86.79978105 W
Media description:	Same as B1 with coal		
Aliquot #5: Latitude:	33.55121405	N Longitude	86.79969562 W
Media description:	Same as B1 with coal		

**(b) (6)**

ADDRESS

DATE: 5/23/13

PROPERTY ID: CV1164

ARRIVAL TIME: 1325

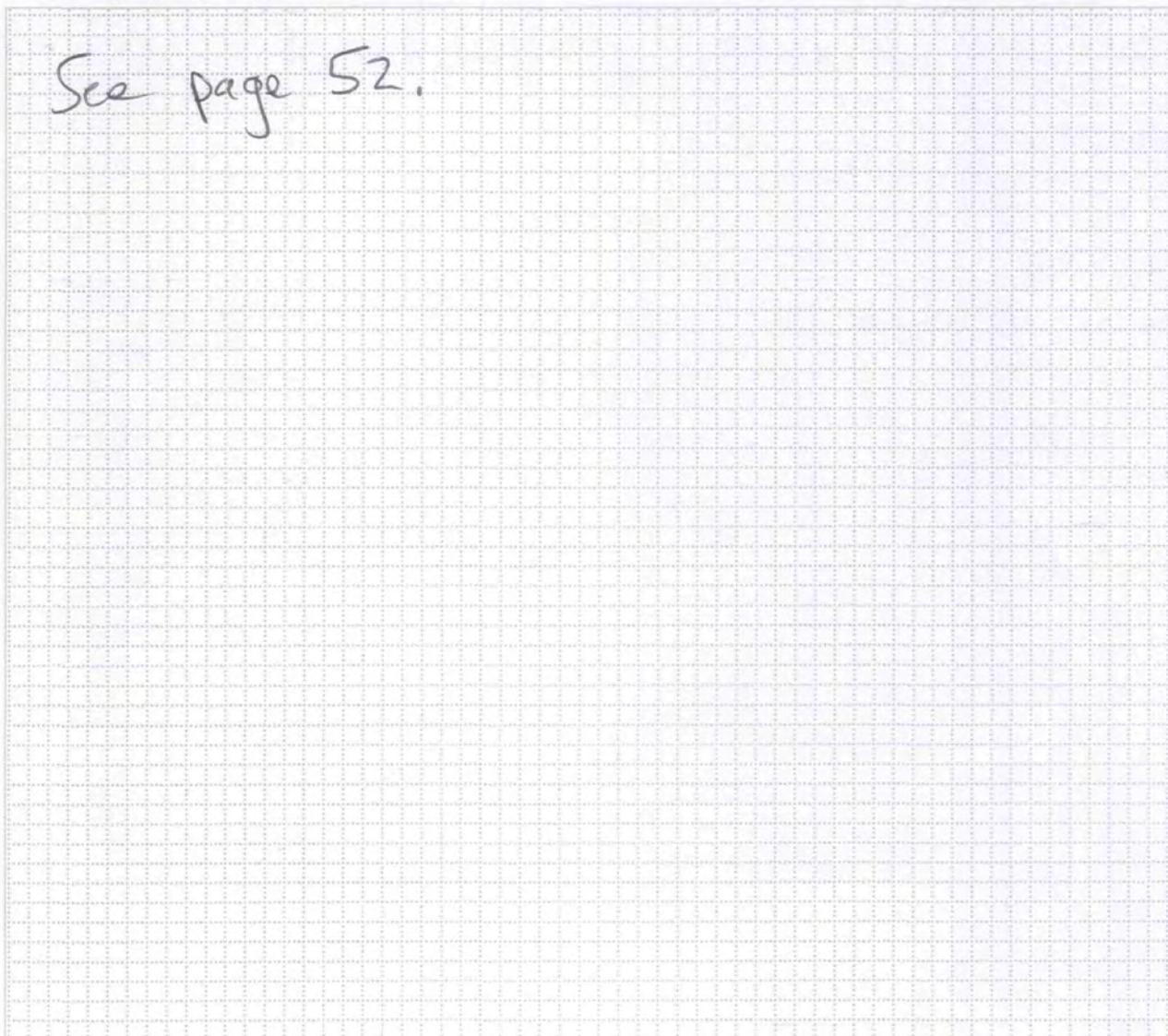
Other pertinent information (weather conditions, etc.):

~86°F + partly cloudy

PROPERTY COMMENTS:

See page 52.

Grid for property sketch



STATION ID: CV1164C SAMPLE ID: CV1164C-CS

SAMPLE COLLECTION TIME: 1355

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

East third of lot

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [X]	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.55099546	N Longitude	86.79966308 W
Media description:	dk brn silty clay		
Aliquot #2: Latitude:	33.55099126	N Longitude	86.79960051 W
Media description:	dk brn silty clay		
Aliquot #3: Latitude:	33.55109937	N Longitude	86.79961995 W
Media description:	dk brn silty clay with orange clay		
Aliquot #4: Latitude:	33.55121118	N Longitude	86.79964668 W
Media description:	dk brn silty clay with gray sand		
Aliquot #5: Latitude:	33.55121285	N Longitude	86.79958673 W
Media description:	dk brn silty clay with coal		

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ]	Instrument #:	Logged? Y or N
Aliquot #1: Latitude:	N Longitude	W
Media description:		
Aliquot #2: Latitude:	N Longitude	W
Media description:		
Aliquot #3: Latitude:	N Longitude	W
Media description:		
Aliquot #4: Latitude:	N Longitude	W
Media description:		
Aliquot #5: Latitude:	N Longitude	W
Media description:		

(b) (6)

ADDRESS:

PROPERTY ID: CU0315

DATE: 5/23/13

ARRIVAL TIME: 1435

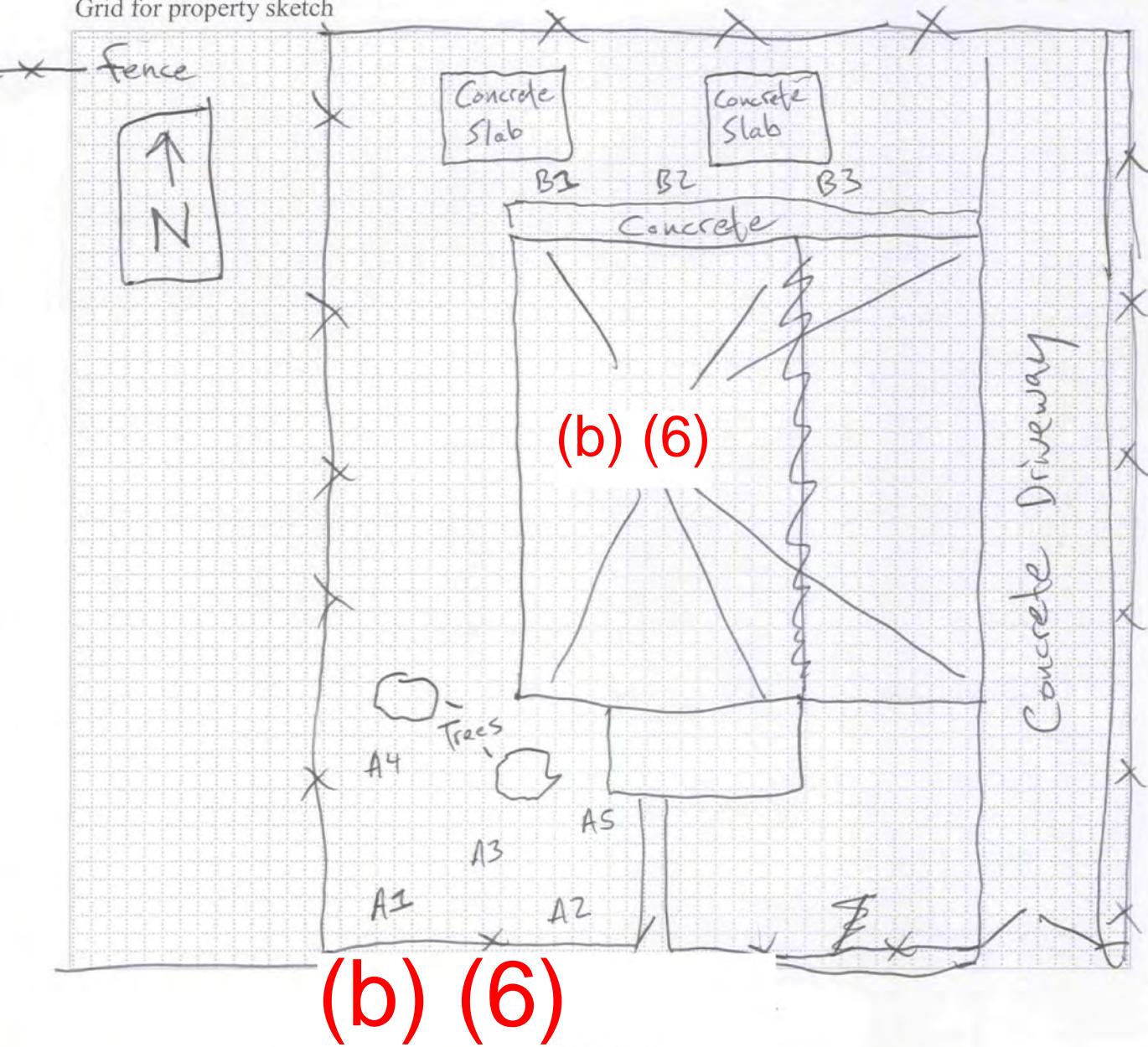
Other pertinent information (weather conditions, etc.):

~86°F + partly cloudy

PROPERTY COMMENTS:

House on lot. Back yard is small only big enough for a 3-point composite

Grid for property sketch



STATION ID: CV0315A

SAMPLE ID: CV0315A-CS

SAMPLE COLLECTION TIME: 1445

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.55639217	N Longitude	86.80849150	W
Media description:	Dk brn silty clay			
Aliquot #2: Latitude:	33.55639274	N Longitude	86.80841413	W
Media description:	Dk brn silty clay			
Aliquot #3: Latitude:	33.55640838	N Longitude	86.80844635	W
Media description:	Brn silty clay with coal			
Aliquot #4: Latitude:	33.55642515	N Longitude	86.80848316	W
Media description:	Brn silty clay			
Aliquot #5: Latitude:	33.55642326	N Longitude	86.80840621	W
Media description:	Same as A3			

STATION ID: CV0315B

SAMPLE ID: CV0315B-CS

SAMPLE COLLECTION TIME: 1455

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard (small back yard only a 3-point composite)

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble	Instrument #:	020168	Logged?	Y or N
Aliquot #1: Latitude:	33.55660685	N Longitude	86.80847186	W
Media description:	Brn sandy silt			
Aliquot #2: Latitude:	33.55661054	N Longitude	86.80842472	W
Media description:	Same as B2			
Aliquot #3: Latitude:	33.55661020	N Longitude	86.80838126	W
Media description:	Dk brn silty clay			
Aliquot #4: Latitude:		N Longitude		W
Media description:				
Aliquot #5: Latitude:		N Longitude		W
Media description:				

**(b) (6)**

ADDRESS: \_\_\_\_\_

PROPERTY ID: CV124Z

DATE: 5/24/13

ARRIVAL TIME: 0815

Other pertinent information (weather conditions, etc.):

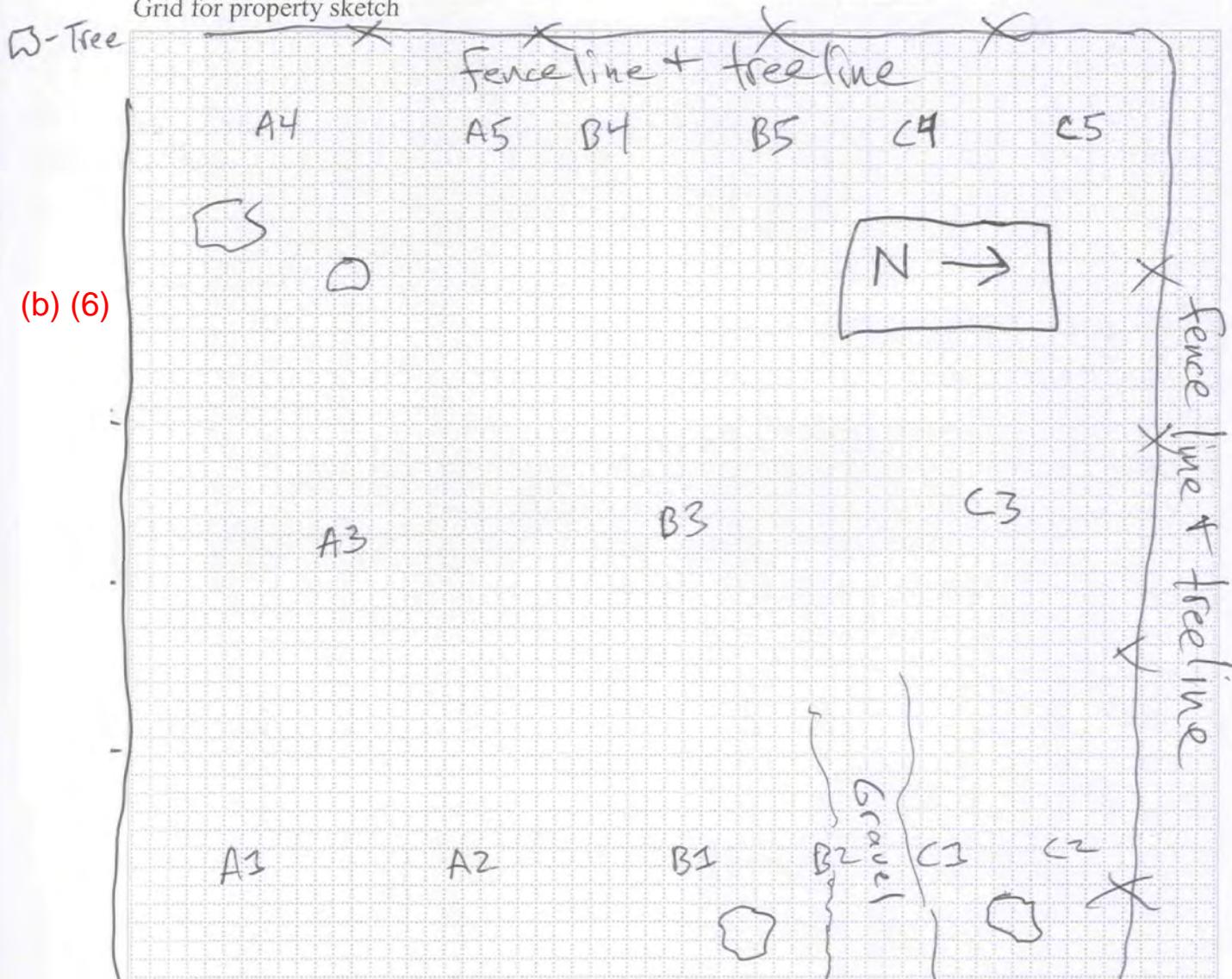
~68°F + partly cloudy

PROPERTY COMMENTS:

Empty lot with treelines on south & west.

Lot divided into thirds for 3 five-point composite samples.

Grid for property sketch



STATION ID: CV1242A

SAMPLE ID: CV1242A-CS

SAMPLE COLLECTION TIME: 0835

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

South third

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV1242A

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1:	Latitude:	33.55133617	N Longitude	86.79847472	W
	Media description:	Dk brn silty clay			
Aliquot #2:	Latitude:	33.55133853	N Longitude	86.79859114	W
	Media description:	Dk brn sandy silt			
Aliquot #3:	Latitude:	33.55125687	N Longitude	86.79853757	W
	Media description:	Same as A1			
Aliquot #4:	Latitude:	33.55117328	N Longitude	86.79856214	W
	Media description:	Same as A1			
Aliquot #5:	Latitude:	33.55118571	N Longitude	86.79858690	W
	Media description:	Same as A1			

STATION ID: CV1242B

SAMPLE ID: CV1242B-CS

SAMPLE COLLECTION TIME: 0845

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Middle third

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	ETRS 020168	Logged?	<input checked="" type="checkbox"/> Y or N
Aliquot #1:	Latitude:	33.55134803	N Longitude	86.79865747	W
	Media description:	Brn Sandy silt			
Aliquot #2:	Latitude:	33.55136317	N Longitude	86.79870538	W
	Media description:	Brn + orange silty clay			
Aliquot #3:	Latitude:	33.55126331	N Longitude	86.79870599	W
	Media description:	Dk brn silty clay			
Aliquot #4:	Latitude:	33.55117651	N Longitude	86.79867248	W
	Media description:	Same as B3			
Aliquot #5:	Latitude:	33.55117926	N Longitude	86.79872489	W
	Media description:	Same as B3			

(b) (6)

ADDRESS:

DATE: 5/24/13

PROPERTY ID: CV1242

ARRIVAL TIME: 0815

Other pertinent information (weather conditions, etc.):

~68°F & partly cloudy

PROPERTY COMMENTS:

See page 58.

Grid for property sketch

See page 58.

STATION ID: CV1242C

SAMPLE ID: CV1242C-CS

SAMPLE COLLECTION TIME: 0855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

North third

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [X]	Instrument #:	020168	Logged? Y or N
Aliquot #1: Latitude:	33.55136558	N Longitude	86.79883408 W
Media description:	Bru Silty clay		
Aliquot #2 Latitude:	33.55136302	N Longitude	86.79886178 W
Media description:	Same as C1		
Aliquot #3: Latitude:	33.55125931	N Longitude	86.79885459 W
Media description:	Same as C1		
Aliquot #4: Latitude:	33.55117953	N Longitude	86.79880026 W
Media description:	DK brn silty clay with slag		
Aliquot #5: Latitude:	33.55118902	N Longitude	86.79883960 W
Media description:	DK brn silty clay		

STATION ID: \_\_\_\_\_ SAMPLE ID: \_\_\_\_\_

SAMPLE COLLECTION TIME: \_\_\_\_\_

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [ ]	Instrument #:	Logged? Y or N
Aliquot #1: Latitude:	N Longitude	W
Media description:		
Aliquot #2 Latitude:	N Longitude	W
Media description:		
Aliquot #3: Latitude:	N Longitude	W
Media description:		
Aliquot #4: Latitude:	N Longitude	W
Media description:		
Aliquot #5: Latitude:	N Longitude	W
Media description:		

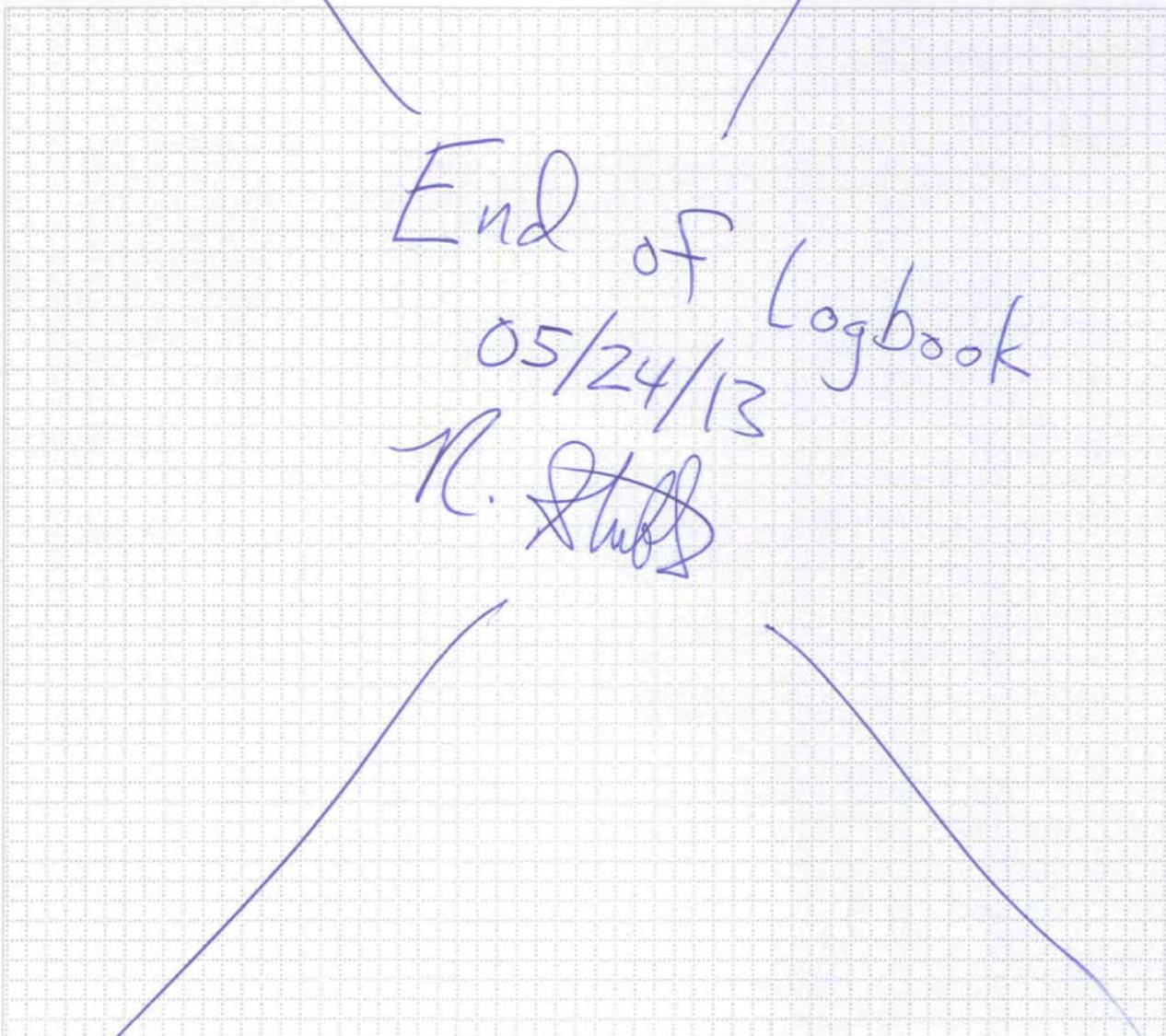
ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

DATE: \_\_\_\_\_ ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):  
\_\_\_\_\_  
\_\_\_\_\_

PROPERTY COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_

Grid for property sketch



The remaining pages in this logbook are  
blank and have not been scanned.